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## MAYOR'S ADDRESS

TO THE CITY COUNCIL.

## CITY GOVERNMENT,

ANNUAL REPORTS, ETC.,

FOR THE YEAR 1896-97.



NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.





# CONTENTS.

1. Inaugural Address of Hon. Charles S. Ashley, Mayor, 24 pages.	
2. Municipal Register for 1897, 24 pages.	
3. Water Report, 100 pages.	
Members and officers of the New Bedford Water Works, . . . . .	2
Twenty-seventh Annual Report of the Board, . . . . .	3-17
Report of the Water Registrar, . . . . .	18-25
Report of the Superintendent, . . . . .	26-43
Rainfall at Storing Reservoir, at Pumping Station, and as registered by T. R Rodman, . . . . .	44-46
Summary of monthly meteorological observations at the pumping station, opposite page 46.	
Work Done by the Pumping Engines, . . . . .	47-49
Pipe Laid and Removed in 1896, . . . . .	50-56
Stop Gates and Waste Gates Set and Removed in 1896, . . . . .	57-64
Location of Hydrants and Air Taps, . . . . .	65-90
Summary of Statistics, . . . . .	91-100
4. Free Public Library, 24 pages.	
Officers of the Library, . . . . .	2
Report of the Trustees, . . . . .	3-9
Statistics, . . . . .	10
Financial Statement, . . . . .	11-16
Gifts to the Library, . . . . .	17-24
5. Fire Department Report, 64 pages.	
Organization of the Fire Department, . . . . .	3-4
Twentieth Annual Report of the Chief Engineer, . . . . .	5-9
Statement of Expenditures, . . . . .	10
Fire Department Roll, . . . . .	11-24
Fire Alarms, Losses and Insurance for 1896, . . . . .	25-38
Fire Alarm Telegraph, . . . . .	39-41
Location of Reservoirs, . . . . .	42
Location of Hydrants, . . . . .	43-61
6. School Report, 108 pages.	
Statistics, . . . . .	3-9
Expenditures, . . . . .	9-14
Sylvia Ann Howland Fund, . . . . .	11-14
Text-Books and Supplies, . . . . .	14-15
Remarks on Expenditures, . . . . .	15-16
Schoolhouses, . . . . .	17-18
Graduating Class of High School, . . . . .	19-22
Votes of Thanks, . . . . .	22
Rates of Tuition for Non-Resident Pupils, . . . . .	23
Rules Governing Teachers' Salaries, . . . . .	24
Description of Schoolhouses, . . . . .	25
School Calendar, 1897, . . . . .	26
Statistics of Attendance, . . . . .	27-32
Names of Text-Books Used in the Different Schools, . . . . .	33-42
Organization of the School Committee, 1896-1897, . . . . .	43-46
Annual Report of Superintendent, . . . . .	47-96
List of Teachers and their Salaries, . . . . .	97-105



7.	Board of Health, 30 pages.	
8.	Finance Report, 182 pages.	
	Auditor's General Statement of Receipts and Expenditures, . . . . .	4-8
	The Same in Detail, . . . . .	9-141
	Bonded Debt of the City, . . . . .	142-143
	Taxes and Valuations since 1877, . . . . .	144
	Schedule of City Property, . . . . .	145-148
	Auditor's Balance Sheet, . . . . .	149-150
	Annual Report of the City Treasurer, . . . . .	160-170
	Annual Report of the Collector of Taxes, . . . . .	153-155
	Annual Report of the Sinking Fund Commissioners, . .	173-178
9.	Report of the Chief of Police, 16 pages.	
10.	Report of the Board of Public Works, 56 pages.	
	Organization for 1896, . . . . .	3
	Population, Valuation, etc., of the City, 1896, . . . .	4
	Report of the Board, . . . . .	5-10
	Appropriations and Expenditures for 1896, . . . . .	11
	Expenditures on Highways and Streets for 1894-95-96, .	12
	Expenditures on General Sewers for 1894-95-96, . . . .	12
	Superintendent's Report to the Board, . . . . .	13
	Streets Accepted, . . . . .	14
	Streets Widened, . . . . .	15
	Description and Cost of Work on Streets, . . . . .	17-38
	Recapitulation, . . . . .	39-56
	Plan showing proposed Bicycle Path, 6 feet wide, around Clark's Point, opposite page 56.	
11.	Report of the Engineering Department, 36 pages.	
	Report of City Engineer, . . . . .	3-23
	New Streets Laid Out and Accepted in 1896, . . . . .	24
	Street Layouts, etc., for Board of Public Works, opposite page 24.	
	Street Widening Laid Out and Accepted in 1896, . . . .	24
	Street Levels and Grades, . . . . .	25-29
	Streets Numbered, . . . . .	30
	Detail of sewers constructed in 1896, opposite page 30.	
	Miscellaneous Work Done, . . . . .	31-35
12.	Superintendent of Public Buildings, also Inspector of Buildings, 12 pages.	
13.	Report of the Overseers of the Poor, 16 pages.	
	Organization of the Board, . . . . .	3
	Report of the Board, . . . . .	5-13
	Report of the Physician to the Board, . . . . .	14
14.	Report of the Department of Parks, 28 pages.	
	Organization of the Board, . . . . .	3
	Report of Park Commissioners, . . . . .	5-7
	Report of Superintendent of Parks, . . . . .	11-14
	Expenditures for the Year 1896, . . . . .	17-27
15.	Report of Cemetery Board, 16 pages.	
16.	Report of the Inspector of Milk, Provisions and Cattle, 6 pages.	
17.	List of Jurors, 24 pages.	
18.	City Ordinances, 8 pages.	

1897—CITY DOCUMENT No. 1.

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ADDRESS  
OF  
CHARLES S. ASHLEY,  
MAYOR OF NEW BEDFORD,  
TO THE  
CITY COUNCIL,  
January 4, 1897.



NEW BEDFORD:  
E. ANTHONY & SONS, Incorp., CITY PRINTERS.  
1897.





# ADDRESS.

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*Gentlemen of the City Council:*

As the result of the expressed will of the citizens of New Bedford, we have this day qualified for the discharge of the duties which devolve upon us during the forthcoming municipal year. These duties, neither you nor I can perform according to the tenor of our oaths of office if partisan considerations have any place in our deliberations or govern our conduct in the discharge of our official duties. As the servants of the people, then, let us aim only to serve the people, giving cordial support, each to the other, with the sole view of attaining the best possible results toward the advancement of every interest of the city entrusted to our care. When the city council is the representative of one municipal party, mainly, this purpose is easily accomplished, but it is far different when two parties are represented in the council chamber, especially if those representatives are controlled by outside influences whose only desire is to obstruct the business of the city, or the interests and the wishes of the people. I believe it to be my duty to serve the city and its interests without regard to party considerations, in any sense whatsoever, and those of you who meet me with the same conviction may be assured that nothing will be done or countenanced by me which is partisan in letter, spirit or purpose. I, therefore, invite your cooperation with me



upon the sole basis of the accomplishment of the greatest good to the greatest number, regardless of party affiliations, and heedless of party clamor, determined that in all our official actions our conduct shall bear the impress of our oaths—that we shall faithfully and impartially perform every duty which the laws of the commonwealth and the ordinances of the city require us to perform. If we meet upon this ground, harmony must prevail. On any other ground there can be no harmony, and it is not possible to faithfully or impartially discharge duties which are rendered in a spirit governed by discord or controlled by partisan considerations. With the fullest confidence in your personal and official integrity, I submit for your consideration certain matters which I deem of importance and which I hope you may find worthy of especial attention and official action.

### FINANCIAL.

From the statements furnished by the City Treasurer, I am enabled to gather the following facts in relation to the finances of the city, setting forth the several transactions for the year :

#### TAXES.

The assessments for 1896 were as follows :

State tax,	\$36,067.50	
County tax,	85,061.14	
City tax,	745,800.00	
Overlay,	30,750.57	\$897,679.21
Collecting, including discount,		857,355.86
Balance unpaid,		<hr/> \$40,323.35

About 4.49 per cent. of the taxes of 1896 now remain unpaid, nearly one half being for poll taxes. The collector informs me that since the payment of a poll tax is no longer by law required as a prerequisite to vote, he finds it quite impossible to collect this class of taxes as heretofore, except by arrest and imprisonment; even then, cities and towns that have tried it have made but little headway. If but 60 per cent. of the poll taxes are collected, we are short in our tax levy just 40 per cent., which must be made up in some way.

The amount received from the State Treasurer for corporation and other taxes was \$62,382.75; this sum was disposed of as ordered by the city council.

#### RECEIPTS AND EXPENDITURES.

The receipts and expenditures for the year, including balance in the treasury January 6, 1896, have been as follows:

Balance Jan. 6, 1896,	\$19,780.59	
Taxes, 1896 and previous year,	706,973.87	
Liquor licenses, net,	57,549.00	
Temporary loans,	826,405.00	
Water works, rates, etc.,	151,637.06	
Other sources,	1,096,339.78	\$2,858,685.30

#### EXPENDED.

Temporary loan,	\$577,000.00	
Public debt, principal and interest,	175,804.89	
Sinking funds,	74,240.00	
Other city purposes,	1,809,992.71	
Balance,	221,647.70	\$2,858,685.30

The means for the payment of the public debt, principal and interest, were from the following named sources:



Appropriations by the city council, \$87,021 ; commissions of sinking funds, \$25,000 ; from water rates, \$32,000 ; transferred from unappropriated funds, \$31,783.89. Total as above, \$175,804.89.

#### APPROPRIATIONS, GENERAL.

Public debt,	\$87,021.00	
Sinking funds,	74,240.00	
Municipal department,	629,539.00	\$790,800.00

#### SPECIAL APPROPRIATIONS.

Specials of 1895,	\$222,017.45	
1896.		
Purchase of Rotch wharf,	22,000.00	
Purchase of Taber wharf,	30,000.00	
Purchase of land Oak Grove cemetery,	13,212.00	
School house and lot, Dartmouth and Dun-		
bar streets,	42,243.00	
Land damages, Purchase street,	39,576.00	
Sewer, Howland street,	16,000.00	
Other purposes,	90,581.41	475,629.86
Total, including specials of 1895,		\$1,266,429.86
Special appropriations, as above,		\$475,629.86
Less transfer from unappropriated funds,		13,612.41
Amount to be provided for in 1897,		\$462,017.45

#### MUNICIPAL DEBT.

The debt of the city at this date is as follows :

Water loan,	\$1,500,000.00	
Park loan, 4 per cent.,	100,000.00	\$1,600,000.00
Improvement bonds, 6 per cent.,	\$160,000.00	
Improvement bonds, 4 per cent.,	500,000.00	
Improvement bonds, 3½ per cent.,	35,000.00	695,000.00
Sewer bonds, 4 per cent.,	\$481,000.00	
Sewer bonds, 3½ per cent.,	75,000.00	556,000.00
Gross bonded debt,		\$2,851,000.00

## TRUST FUNDS.

Sylvia A. Howland fund,	\$100,000.00	
Library and other funds,	42,000.00	142,000.00
		<hr/>
		\$2,993,000.00
Temporary loan on specials,	\$308,105.00	
Balance of special appropriations,	153,912.45	462,017.45
		<hr/>
Total debt, including special appropriations,		\$3,455,017.45

## DEDUCT ASSETS.

Due from state soldiers' aid,	\$11,865.00	
Corporation and other taxes,	1,300.00	
Betterment and sewer taxes,	12,000.00	
Taxes collectable,	40,000.00	
Sinking funds,	455,017.67	
Balance of cash,	221,647.70	741,884.37
		<hr/>
Net debt, Jan. 4, 1897,		\$2,713,133.08
Net debt, Jan. 6, 1896,		1,984,466.54
		<hr/>
Net debt increase for past year,		\$728,666.54

It may be a question whether we have a legal right to issue bonds to provide for the purchase of the Rotch's wharf, \$22,000; and Taber's wharf, \$30,000. This is something entirely new to our city, and it may be necessary for us to go to the general court to get authority to make the issue, say, of \$52,000 wharf bonds, to be made payable in 30 years from the date of the issue.

After providing for all special appropriations by the issue of the required bonds, we shall then be about \$74,000 short of our debt limit. The large amount of cash on hand (\$221,647.70), is due to a recent sale of water bonds for the further water supply.

Many cities of Massachusetts have changed the financial year from January 1 to December 1. This enables the accounting officers to make a strictly correct statement for

the new government. I cordially recommend this suggestion to your action and adoption.

## THE SCHOOLS.

Our schools as a whole rank with the best in the country. The school buildings are good, some of them models in the matters of convenience and hygienic condition. The course of study is comprehensive and thorough: the teachers are well educated and well trained, and the motive spirit is progressive, tempered by a wise conservatism. But there are certain questions that are of either general or special interest to which I would direct attention.

### SCHOOL BUILDINGS.

The rapid increase in the school population of the city has made it difficult to provide school houses as soon as they are needed, although effort has been made to do so. There are at present between two and three hundred children who are attending school in rented rooms: some of these are in the south part of the city, others in the north part.

Two school houses are now in process of construction, and the plans and estimates have been accepted for a third. When the first two are completed, all the children now housed in rented buildings can be accommodated in them. The third, which is to be located on Clark's Point, ought to provide for the growth of the city in that direction for some years. Indications are that a new building will be needed in the western section of the city before a great while. The school houses in that quarter are now



becoming taxed to their capacity. If manual training is extended into the High school as provided by statute, a building will be needed for that purpose.

But the most pressing want of the school department in the matter of accommodation is new quarters for the school committee, the superintendent and the supply department. The building now occupied by them is entirely inadequate for the work, which has more than doubled in ten years. One is needed specially constructed for their purposes—one with several offices, a school committee room and supply rooms. Such a building can be constructed at an expenditure of which the interest will not greatly exceed the rent now paid for the one used by them. At present the superintendent has no suitable place to receive parents, pupils, teachers and others who are constantly seeking him; the school committee is not well accommodated, and the large quantities of books and supplies for the schools are now handled at great inconvenience.

#### MANUAL TRAINING AND COOKING SCHOOLS.

The manual training and cooking departments which were established in 1892 have met with all favor and support which were anticipated for them. Several hundred girls are taught each year the art of cookery as well as the economics of the art and the physiological effects of the various foods. It is a valuable training whose results reach beyond the practical to the moral side of life.

Manual training, which at present is confined to wood working by the Sloyd system to the three upper grammar

grades, is also a most valuable education for the boys. It teaches them not only the use of tools, but also trains their judgment and reason. It also tends to create within them a respect for manual labor and a liking for the mechanic arts. An extension of this line of work is most desirable and the statutes of the state really make it obligatory in cities of this size.

#### BUSINESS COURSE IN HIGH SCHOOL.

The introduction of a business course into the high school is a departure which has proven popular, and will probably continue to be so. Many pupils who enter this school do not intend to go to college, but desire a fair education to meet the demands of a business life. This course offers such an education.

#### KINDERGARTENS.

The foremost question at present in relation to the future organization of our schools is the one whether kindergartens shall or shall not form a constituent part of the education offered by them. The school board, after carefully examining into the merits of kindergartens, has recommended that they be engrafted on the school system. Many prominent citizens have advocated their adoption. While it may not be feasible to establish enough at once to supply all pupils who might seek admission, several schools of this kind might be established in different quarters of the city and others opened as demand arose for them and opportunity offered. This has been the course pursued in most cities where they have been established.

Educators are generally agreed that kindergartens are a most valuable adjunct to the public school system, and New Bedford cannot afford to refuse her young children that education which many cities of far less resources are freely giving. Most of these matters were strongly recommended by me in 1892, and the lapse of time since has fully demonstrated the public appreciation and value of them all, and it does not seem necessary for me to repeat at this time my most hearty approval of them.

### FIRE DEPARTMENT.

The fire department of the city at the present time is in most excellent condition. Both officers and members have been prompt to answer every duty call and they have rendered service in a most satisfactory manner. Notwithstanding the acknowledged efficiency of this department, prudence would suggest that nothing should be overlooked to keep the fire department of the city in close touch with its growth in population and its extended territory, throughout which building improvements are constantly taking place, thereby adding by increased taxation to the revenues of the city. Under the present system the city is exposed to danger during the hours of the day when the permanent members are obliged to be absent at meal hours and other times, when a fire alarm would involve serious consequences. Therefore I recommend that additional permanent members be provided for all such fire stations as the committee on fire department, after careful consideration, shall deem necessary for the best protection against any possibility of loss by reason of in-



complete protection against all reasonable contingencies. I also recommend that the city provide a suitable building at the southwest and west ends, so constructed as to furnish accommodations for a chemical engine, hose carriage and, if the future growth of the city should so demand, a ladder truck and steam fire engine, for the better protection of the lives and property of our thrifty citizens who are developing those sections and adding to the wealth and beauty of the city.

The total loss by fire during the past year, exclusive of the loss sustained by manufacturing corporations, has been comparatively small, viz. : \$21,884.83.

#### OVERSEERS OF THE POOR.

"The poor we have always with us." This department is one of the most important departments in the service of our municipal government. It deals with the poor and needy, not only in health, but even in sickness and death. While we do not desire to encourage pauperism, yet we recognize that poverty is no crime, and the poverty stricken can never appeal in vain to the charitable sentiment of our community. Heretofore, when our population was scarcely more than one half what it is at present, one physician to the overseers of the poor was deemed sufficient to answer every requirement. Now with double the population, and the corresponding demands for aid to the deserving poor and needy, I am convinced that prompt attention cannot be rendered by one physician in all cases, and therefore I recommend that the board of overseers of the poor hereafter employ two physicians, under such

conditions that if one is engaged in official duty the other may be called upon, leaving to the board to determine the manner in which each physician shall perform his duties, but each physician to the board shall have full and complete authority with the other, and his compensation shall be in every way equal with that of his associate.

### WATER WORKS.

In my inaugural of January, 1891, I called to the attention of the city council the condition of our water works system in these words: "A comparison of the record of 1890 with that of 1880 shows that the consumption has doubled within the ten years, while the gain in population during the same time has only been 55 per cent. Let us seriously consider this matter, for while the supply has been abundant up to the present time, it is fast approaching the extreme limit of the capacity of the conduit leading from the storing reservoir at Long Plain to this city. Unless the rate of consumption can be prevented from further growth it will soon be absolutely necessary to expend a large sum for the placing of an additional conduit." My prediction has already come to pass, resulting in the largest contract ever entered into by the city of New Bedford, thus securing a water supply fully adequate to all the requirements of the city for generations yet to come.

The following is a brief statement of the financial condition of the "Further Water Supply" account at the present time:

## RECEIPTS.

Bonds sold,	\$1,000,000.00
Premium on same,	89,701.50
From water rates to pay sinking funds,	20,000.00
From general appropriations to pay interest,	20,017.33
Sales, etc.,	1,931.16
	<hr/>
	\$1,131,649.99

## EXPENDITURES.

Amount paid as per schedule,	\$714,312.25	
Sinking funds,	20,000.00	
Interest on bonds,	20,017.33	
	<hr/>	754,329.68
Balance to credit of account,		\$377,320.31

In addition to the above the city council may dispose of \$200,000 more of water bonds for this work.

## BUILDING STATISTICS FOR 1896.

Whole number of permits issued during the year for new buildings, alterations and repairs was 794, the estimated value being \$1,687,396.

## CLASSIFIED AS FOLLOWS :

Buildings for manufacturing purposes,	\$69,895
Dwellings, singly and in blocks.	960,900
Stores and dwellings combined,	74,650
Charitable institutions and churches,	35,875
Business buildings (stores and offices), theatre and banking house,	306,525
City buildings (new completed and old repaired),	49,076
Additions to dwellings and buildings moved, altered and repaired,	113,056
Miscellaneous structures, stables, sheds, etc.,	77,419
	<hr/>
	\$1,687,396

Number of new dwellings erected, 378; containing 865 tenements.

Number of tenements over stores added, 55; making a total number of tenements erected, 920.



Number of permits during 1895, 554.

Increase for 1896 over 1895, 240.

Number of dwellings erected in 1895 was 201.

Increase for 1896 over 1895, 177.

Increase in number of tenements, 419.

### POLICE DEPARTMENT.

There is a popular belief that the police department of New Bedford has failed to show that degree of efficiency which the public demand with reference to the enforcement of some of the laws of this Commonwealth, which belief, if well founded in fact, would warrant severe measures at the hands of the chief executive of the city.

I prefer not to prejudge this matter, but I propose to ascertain whether the members of the police force of this city have shut their eyes to crap shops, policy shops and places in which illegal gaming has been more or less openly carried on, or whether the bold and open conduct of such places has been due not to the neglect of the officer in patrolling his beat, but to the neglect of those higher in authority, over whom he has no control, and when the facts are fully ascertained I shall consider it my duty to deal with those in default in a summary manner, regardless of the position of any official, to whose neglect the conditions which are claimed to have existed, if it be found that such conditions exist or have existed, are found to be attributable.

### BOARD OF PUBLIC WORKS.

The question of the wisdom of taking from the representatives elected directly by the citizens the conduct of our municipal affairs and entrusting them to officials re-

sponsible only to the appointing power, is one which admits of diversity of opinion. I am fully convinced that the theory of a plant thoroughly equipped for the performance of the work involved in the construction and maintenance of roads, bridges and sewers is wise and economic, but I recognize that the delegation of these extensive powers to appointees holding office for a term of three years places such appointees practically beyond the reach of the public, thereby placing the public, who should be masters, in the position of servants, or what is as unsatisfactory, compelling them to seek as favors the things to which they are generally entitled as of right. The growing complaints of the people demand recognition in this matter. Those complaints, briefly stated, are that the interests of the citizens are not consulted where party or personal interests contravene—that favoritism governs where absolute impartiality should obtain. Add to these considerations the fact that the mayor and president of the common council are elected annually and one member appointed by the mayor annually—and the inference is irresistible that this board must of necessity be under the control of partisan influence, and therefore inclined to partiality in the distribution of favors in some, if not all, matters within their control.

In my opinion the members of the board of public works, with their enormous powers, should all be elected by the people, and each ward should have a representation in that board, thus bringing them directly within the reach of the people, and consequently more considerate of the interests of their constituents. As now constituted it

seems absurd that the mayor of the city and the president of the common council should be expected to pass on every private drain entered into a sewer, every load of gravel or cinders or other materials required for a sidewalk, and the numberless other petty matters which could and ought to be passed upon by a committee acting with the advice of a member familiar with the locality and its actual needs.

### LIQUOR LICENSES.

Traffic in spirituous and intoxicating liquors has been a fruitful source of legislative experiment in this Commonwealth, each attempt bearing unmistakable earmarks, indicating a desire of those entrusted with making our laws to serve two masters, namely, those who believe that such liquors should be sold for some purposes, and those who believe they should not be the subject of legalized sale for any purpose.

A casual glance at the history of this legislation creates a conviction irresistible that our lawmakers have been overzealous in the desire to serve both these masters equally well, with the result that each experiment has only added new complications to an already complicated and unsatisfactory system. With the number of licenses limited by municipal population the municipal license fee fixed at a sum which renders the business as uncertain financially as it is sometimes unpopular; and the power to grant such licenses taken from the representatives of the people and vested in the hands of three appointees of the mayor of the city, no more unhealthy, unpopular or



dangerous system could well be designed, to put the licensee under the power of those in authority without a single source of redress or an avenue of escape, except submission to every demand and obedience to every mandate of the triumvirate created by so-called wise legislators of the great and general court. I unhesitatingly assert that the license commission, as it now exists in New Bedford, has not only proven an utter failure, but it has demonstrated beyond a doubt the possibilities which it affords for coercion as the price of present and future existence. A system which renders it possible for me to compel a man against his will, under fear of future punishment, or in hope of future reward, as the price of going into business or remaining in a business established, is not merely pernicious, but subversive of every principle of individual liberty guaranteed us by our constitution. A system which makes it possible for me, by force of official authority, to change the incumbents of an office at will, and thus control the conduct of such a system, when I have ceased to exercise official authority, is a system which has failed of the purpose for which it was created, and has no right, having so failed, to exist. The purpose of the law was claimed to be the emancipation of the liquor traffic from political influences. The result of the law has been to place the dealer at the mercy of every political influence which the ingenuity of the human mind can conceive.

I ask you, gentlemen of the city council, to unite with me in asking the legislature to abolish this system, so far as New Bedford is concerned, and to restore to the repre-

sentatives elected by the citizens of New Bedford the control over the liquor traffic, if they will, or failing in that to place the election of the license commissioners in the hands of the people, where we may have some hope that local influences, for party or political purposes alone, may not control the election to or retention of the officials in office. Your action seeking this result cannot fail of recognition when relief is sought from this pernicious system, and cannot fail of the appreciation at the bar of public opinion.

### STREET FRANCHISES.

When the legislature of 1889 created the board of public works for the city of New Bedford, the obvious intent of the act was to concentrate all the powers and duties therein confined in the interest of harmony and to avoid conflict of authority. One of the principal objections to the board has been the fact that such legislation has left very little of importance under control of the city government. The scope of authority conferred upon the board of public works has been conspicuously forced upon public attention during the past year, when Purchase street and Union street were widened notwithstanding the refusal of the common council at first to make an appropriation for the purpose. It is claiming a great deal, to say the least, if any person does claim that the three members of the board of public works, whomsoever they may be, possess the combined wisdom, judgment and common sense of six aldermen and twenty-four councilmen. Yet that is what the legislation of 1889 amounted

to. In 1890 the mayor and president of the common council were made ex-officio members.

To these five members is entrusted the expenditure of about one hundred thousand dollars annually ; the power to contract unlimited debts in the name of the city without authority from the city council and against its will ; and the sole and exclusive authority over everything pertaining to our streets formerly vested in the mayor and the city council, or either branch thereof.

The result may readily be foreseen. Once this board is brought under the influence or control of corporations seeking privileges in our streets those privileges, regardless of cost to the city, are voted away for the mere asking. Telephone and electric wires are voted to be buried in our streets, in conduits, over which the projectors are guaranteed the exclusive control. Street railways are given the privilege to occupy our streets, almost to the exclusion of the public, without money and without price, a public convenience it is true, but conducted in the interest of the public and for its convenience only in so far as the corporation realizes profit upon its business in the form of handsome dividends. But this is not the only objection. Capitalists who have no interest in our city beyond those dividends buy our street railway, take our money and beyond the expense incurred in running the road the earnings of the people of New Bedford go to swell the bank account of a New York or some other syndicate. It has cost the city of New Bedford millions of dollars to construct our streets. It costs thousands of dollars annually to keep them in repair. The steam rail-

road buys the land, constructs the road-bed and equips the road at its own expense, and then has to compete with electric street railways, paying nothing for the space it utilizes in our streets and even refusing to keep that space in proper condition upon every pretext imaginable. More than that, they plough the snow from their tracks in front of the business places and residences of our citizens whose taxes go to keep our streets in repair, and refuse, as they have refused even within three weeks, to remove the obstructions they have created to the annoyance and inconvenience of the legitimate owners of the streets and their privileges.

There is no doubt as to where public sentiment points upon this subject. I believe one of the unmistakable indications of the recent municipal election points to a public demand that corporations enjoying privileges in our streets for the purpose of business and profit should compensate the city fully, yet fairly and equally, for the benefit and advantage which they derive from the privileges conferred. It is my purpose to carry out this unmistakable desire of the public, and I ask your cooperation by the election of a president of the common council who will not only agree with me, but stand ready to uphold me in what, without doubt, will prove to be the most stubborn contest the city of New Bedford has ever experienced in the attempt to obtain only her just rights.

### CONCLUSION.

Gentlemen of the city council, we are only at the threshold of our official duties, and have yet to learn the



great responsibility which rests upon us in the performance of our trusts. As you have learned from the official records we enter upon the discharge of our duties with a net debt of \$2,713,133.08, an increase of \$728,666.54 over the year preceding. It is obvious therefore that we cannot, during the forthcoming year, increase our net debt to any great extent, being as we are but about \$74,000 short of the debt limit. The enormous increase resulting from the valuations under the platting system has been wiped out, and we are once more brought face to face with the proposition which confronts every business man in the management of his business. That proposition is no more or less than this: we must endeavor to limit our regular running expenses to our income. From official estimates I am enabled to inform you that to meet the absolute requirements of the ensuing year the tax rate must go up to \$17.25 per thousand unless we raise our valuations.

Gentlemen, let our watchword be prudence and economy in every department, in so far as prudence and economy are consistent with the imperative demands of our extraordinary growth, and the numerous and indispensably necessary requirements of that growth.





# CITY GOVERNMENT,

## 1897.

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MAYOR.

HON. CHARLES S. ASHLEY.

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ALDERMEN.

Ward 1—HENRY P. JENNEY.

Ward 2—GEORGE A. HOUGH.

Ward 3—SAMUEL C. HUNT.

Ward 4—HENRY C. DENISON.

Ward 5—MANUEL V. SYLVIA.

Ward 6—SAMUEL E. BENTLEY.

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CITY CLERK.

DANIEL B. LEONARD.

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CITY TREASURER AND COLLECTOR OF TAXES.

JAMES H. HATHAWAY.

---

CITY AUDITOR.

GEORGE W. PARKER.

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CITY MESSENGER.

AUGUSTUS D. PIPER.



## COMMON COUNCIL.

PRESIDENT—GEORGE P. BAILEY.

*Ward One.*

ERNEST O. FINDEISEN,  
STEPHEN L. FINNELL,  
FREDERICK C. DAWE,  
JOSEPH MAGNANT.

*Ward Four.*

CLIFTON W. BARTLETT,  
FRANK A. HABICHT,  
CHARLES H. FULLER,  
JOHN A. TAYLOR.

*Ward Two.*

ARTHUR L. BLACKMER,  
WILLIAM BAMFORD,  
CRAWFORD L. DUNHAM,  
THOMAS J. GIFFORD.

*Ward Five.*

ROBERT L. BAYLIES,  
CLIFTON H. CORNISH,  
JOSEPH DIAS,  
PHILIP C. RUSSELL.

*Ward Three.*

GEORGE P. BAILEY,  
WILLIAM L. CHADWICK,  
OLIVER B. DAVIS,  
WALTER A. JENNEY.

*Ward Six.*

GEORGE N. GARDINER,  
EDWARD F. PENNEY,  
WILLIAM J. BULLOCK,  
JOSEPH C. WARREN.

*Clerk*—WILLIAM A. MACKIE.

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## STANDING COMMITTEES OF THE BOARD OF MAYOR AND ALDERMEN.

*Police*—The Mayor, and Aldermen Sylvia and Hough.

*Licenses*—Aldermen Hunt, Jenney and Denison.

*Burial Grounds*—Aldermen Sylvia, Hunt and Hough.

*Enrollment*—Aldermen Denison, Sylvia and Jenney.

*Soldiers' Aid*—The Mayor, and Aldermen Bentley and Denison.

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## JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

*Finance*—The Mayor, and Alderman Denison, the President of the Common Council, and Councilmen Dawe, Blackmer, Bartlett, Cornish and Gardiner.

*Audit*—Aldermen Hunt and Jenney, and Councilmen Penney, Dunham and Davis.

*City Property*—Aldermen Hunt and Bentley, and Councilmen Finnell, Fuller and Taylor.

*Fuel*—The Mayor, and Alderman Denison, and Councilmen Dunham, Gifford and Chadwick.

*Education*—Aldermen Hunt and Hough, and Councilmen Blackmer, Warren and Dias.

*Fire Department*—Aldermen Sylvia and Hough, and Councilmen Dawe, Bullock and Baylies.

*Roads, Bridges and Sewers*—Aldermen Bentley and Jenney, and Councilmen Russell, Jenney and Chadwick.

*Charities, Almshouse and the Poor*—Aldermen Sylvia and Bentley, and Councilmen Bamford, Dias and Russell.

*Street Lights*—Aldermen Denison and Jenney, and Councilmen Penney, Cornish and Habicht.

*Printing*—Alderman Hunt, and Councilmen Finnell and Bamford.

*Buildings in the Fire Districts*—Aldermen Hough and Sylvia, and Councilmen Magnant, Bartlett and Jenney.

*Armories and Military Property*—Aldermen Bentley and Jenney, and Councilmen Gardiner, Blackmer and Gifford.

*Water Works and Water Supply*—Aldermen Jenney and Hunt, and Councilmen Magnant, Habicht and Bamford.

*Claims*—Aldermen Bentley and Sylvia, and Councilmen Penney, Dunham and Findeisen.

*Ordinances*—Aldermen Bentley and Hough, and Councilmen Fuller, Dias and Warren.

*Wharves*—Aldermen Bentley and Hunt, and Councilmen Penney, Cornish and Warren.

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STANDING COMMITTEES OF THE COMMON COUNCIL.

*Election and Returns*—Councilmen Bullock, Gifford and Davis.

*Bills in Second Reading*—Councilmen Cornish, Jenney and Bartlett.

*Enrolled Ordinances*—Councilmen Penney, Chadwick and Dias.

## ASSESSORS.

Office, Library Building, Room 6.

CHARLES D. TUELL, Chairman, 2 years.

HUMPHREY A. GIFFORD, JR., 1 year.

CHARLES H. L. DELANO, 3 years.

## ASSISTANT ASSESSORS.

Ward 1—THOMAS F. HEALEY.

Ward 2—ARTHUR B. CHAPPELL.

Ward 3—HENRY C. RUSSELL.

Ward 4—GIDEON H. ALLEN.

Ward 5—WILLIAM J. ABRAMS.

Ward 6—WILLIAM F. BANNON.

## BOARD OF HEALTH.

Office, 52 Pleasant Street.

THOMAS W. COOK, Term expires February, 1898.

EDWARD D. WAITE, Term expires February, 1899.

WILLIAM G. KIRSCHBAUM, Term expires February, 1900.

THOMAS W. COOK, Chairman.

EDWARD E. WAITE, City Physician and Quarantine Physician.

## CLERK.

SUSIE. J. SMALL.

## HEALTH INSPECTOR.

WILLIAM E. MACOMBER.

## INSPECTOR OF PLUMBING.

LOUIS H. RICHARDSON.

## NEW BEDFORD WATER WORKS.

## NEW BEDFORD WATER BOARD.

His Honor, CHARLES S. ASHLEY, Mayor, *ex officio* President.

GEORGE P. BAILEY, President of the Common Council, *ex officio*.

DAVID B. KEMPTON, Term expires June, 1898.

EDMUND WOOD, Term expires June, 1899.

THOMAS B. TRIPP, Term expires June, 1900.

## CLERK.

ROBERT C. P. COGGESHALL.

## WATER REGISTRAR.

JAMES H. HATHAWAY.

Office, Room 2, Library Building.

## SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

Office, City Hall Building.

## INSPECTOR.

CLIFFORD BAYLIES.

Office, Room 2, Library Building.

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COMMISSIONERS OF SINKING FUNDS.

ANDREW R. PALMER,	Term expires March, 1898.
EDWARD S. BROWN,	Term expires March, 1899.
WILLIAM H. PITMAN,	Term expires March, 1900.

ANDREW R. PALMER, Chairman.

JAMES H. HATHAWAY, Secretary and Treasurer.

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OVERSEERS OF THE POOR.

CHARLES A. B. PETERSON,	Term expires May 1, 1898.
CHARLES S. PAISLER,	Term expires May 1, 1899.
THOMAS G. WING,	Term expires May 1, 1900.

Secretary—THOMAS G. WING.

Messenger—AUGUSTUS A. WOOD.

Clerk—ELLA F. BUCKLIN.

Supt. Almshouse and Farm—AXEL H. JACKSON.

Physicians—EDWARD W. DEHN, GEORGE F. LEWIS.

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FREE PUBLIC LIBRARY.

## TRUSTEES.

*Ex officio. Term expires January, 1898.*

CHARLES S. ASHLEY, Mayor of the City.

GEORGE P. BAILEY, President of the Common Council.

SAMUEL C. HUNT, Alderman and Chairman of the Committee of the City Council on Education.



*Elected by the City Council.*

ALEXANDER McL. GOODSPEED,	Term expires April, 1898.
LEMUEL LeB. HOLMES,	Term expires April, 1898.
WALTER S. ALLEN,	Term expires April, 1899.
WILLIAM L. SAYER,	Term expires April, 1899.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1900.
MATTHEW C. JULIEN,	Term expires April, 1900.

## PRESIDENT OF THE BOARD.

## THE MAYOR.

## CLERK.

## WILLIAM L. SAYER.

## COMMITTEES.

*On the Library*—Messrs. Julien, Allen and Holmes.

*On Finance*—Messrs. Allen, Tompkins and Goodspeed.

*On the Building*—Messrs. Tompkins, Sayer and Hunt.

## LIBRARIAN.

## ROBERT C. INGRAHAM.

## FIRST ASSISTANT LIBRARIAN.

## BENJAMIN W. PENNOCK.

## SECOND ASSISTANT LIBRARIAN.

## L. NELSON NICHOLS.

## ASSISTANTS.

JOSEPHINE A. MERRICK,	ETTA F. LAWRENCE,
SUSIE H. GAMMONS,	FLORENCE E. FARWELL,
	ANNA H. DEWOLF.

## JANITOR.

## YORICK W. AMES.

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BOARD OF PUBLIC WORKS.

Office, Odd Fellows Building.

His Honor, CHARLES S. ASHLEY, Mayor, *ex officio* Chairman.

GEORGE P. BAILEY, President of the Common Council, *ex officio*.

CHARLES O. BRIGHTMAN, Term expires May 1, 1898.

JOHN ELDRIDGE, JR., Term expires May 1, 1899.

MORGAN ROTCH, Term expires May 1, 1900.

## CLERK.

## WILLIAM S. COOK.

## SUPERINTENDENT.

## CHARLES F. LAWTON.

## PARK COMMISSIONERS.

THE MEMBERS OF THE BOARD OF PUBLIC WORKS.  
WILLIAM S. COOK, Clerk.

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## SUPERINTENDENT OF BRIDGE AND DRAW TENDER.

WILLIAM DOWNEY.

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## CITY SOLICITOR.

THOMAS F. DESMOND.

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## CEMETERY BOARD.

WILLIAM SANDERS,	Term expires May 1, 1898.
CHARLES H. VINAL,	Term expires May 1, 1899.
JAMES DELANO,	Term expires May 1, 1900.

Chairman—JAMES DELANO.

Secretary—CHARLES H. VINAL.

## SUPERINTENDENT.

CHARLES F. CORNELL.

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## SEALER OF WEIGHTS AND MEASURES.

JOHN N. O'BRIEN.

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## SUPERINTENDENT OF PUBLIC BUILDINGS AND BUILDINGS IN THE FIRE DISTRICTS.

EDMUND O'KEEFE.

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## INSPECTOR OF BUILDINGS.

EDMUND O'KEEFE.

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## SUPERINTENDENT OF CITY CLOCK.

WALTER R. TOWNSEND.

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## CITY BELL RINGER.

OTHELLO S. DRISKELL.

## CITY ENGINEER.

WILLIAM F. WILLIAMS.

## HARBOR MASTER.

CHARLES H. CRAGEN.

## INSPECTOR OF PETROLEUM AND VINEGAR.

FRANK R. DELANO.

Office, No. 17 Middle Street.

## INSPECTOR OF MILK, ANIMALS AND PROVISIONS.

DANIEL C. ASHLEY.

Office, Southeast Corner Acushnet Avenue and Elm Street.

## SUPERVISOR OF WIRES.

DANIEL D. BRIGGS.

## REGISTRARS OF VOTERS.

EDWIN A. DOUGLASS, Term expires May, 1898.

WILLARD N. LANE, Term expires May, 1899.

JOHN A. GOMLEY, Term expires May, 1900.

WILLARD N. LANE, Chairman.

DANIEL B. LEONARD, Clerk.

Office, Basement City Hall Building.

## PRECINCT OFFICERS.

*Term of office expires Nov. 1, 1897.*

## WARD ONE, PRECINCT ONE.

Warden, DANIEL J. SULLIVAN, D.

Clerk, GEORGE B. BORDEN, R.

Inspector, PETER J. RILEY, D.

" EDWARD C. TABER, R.

" MICHAEL E. DALEY, D.

" CHARLES T. BROWNELL, R.

*Deputies.*

Warden, JOHN K. SMITH, D.  
Clerk, CALEB SLADE, R.  
Inspector, EDWARD P. CANNY, D.  
" WILLIAM F. CHASE, R.  
" DENNIS J. MCAULIFFE, D.  
" EDWARD HUGHES, R.

## WARD ONE, PRECINCT TWO.

Warden, GEORGE W. HILLMAN, R.  
Clerk, MICHAEL McDONNELL, D.  
Inspector, DAVID C. McWHINNIE, R.  
" DANIEL F. DRISCOLL, D.  
" HENRY H. HACKING, R.  
" DANIEL J. CONNOLLY, D.

*Deputies.*

Warden, JOSEPH C. PATNAUDE, R.  
Clerk, JOSEPH CHAUSSE, D.  
Inspector, MICHAEL F. HARLOW, R.  
" PATRICK J. MAHONEY, D.  
" WILLIAM W. PEASE, R.  
" SAMUEL J. SMITH, D.

## WARD TWO, PRECINCT THREE.

Warden, GEORGE P. MACOMBER, R.  
Clerk, LAWRENCE H. BARNEY, D.  
Inspector, CHARLES T. BURGESS, R.  
" JOHN H. RYAN, JR., D.  
" CHARLES L. FAUNCE, R.  
" ASA L. H. ALLEN, D.

*Deputies.*

Warden, EDWARD H. CARTER, R.  
Clerk,  
Inspector, EDWIN WHITTAKER, R.  
" CHARLES L. CHURCH, D.  
" GEORGE E. SAXON, R.  
" DENNIS H. TOOMEY, D.



## WARD TWO, PRECINCT FOUR.

Warden, GEORGE K. DAMMON, R.  
Clerk, JOHN N. O'BRIEN, D.  
Inspector, JAMES H. BAMFORD, R.  
" MAURICE C. DAHILL, D.  
" WILLIAM M. HIGHAM, R.  
" JOSEPH P. H. CLARKE, D.

*Deputies.*

Warden, WARREN P. TOBEY, R.  
Clerk, THOMAS J. MURPHY, D.  
Inspector, PHILIP R. KING, R.  
" JAMES P. FITZGERALD, D.  
" JAMES C. McNUTT, R.

## WARD THREE, PRECINCT FIVE.

Warden, JOSHUA B. ASHLEY, JR., D.  
Clerk, JAMES D. ALLEN, R.  
Inspector, HENRY F. HAMMOND, D.  
" WILLIAM T. CASWELL, R.  
" OBED S. COWING, D.  
" AUGUSTUS G. MOULTON, R.

*Deputies.*

Warden, HENRY SMITH, D.  
Clerk, CHARLES A. V. TERRY, R.  
Inspector, JOSHUA G. LAPHAM, D.  
" PRINCE S. BORDEN, R.  
" JOHN O'NEIL, D.  
" CALEB G. SHEPHERD, JR., R.

## WARD THREE, PRECINCT SIX.

Warden, DAVID B. PEIRCE, D.  
Clerk, B. FRANKLIN WORDELL, R.  
Inspector, TIMOTHY CROWLEY, D.  
" STEPHEN HAFFORD, JR., R.  
" WILLIAM W. ATWOOD, D.  
" ARTHUR A. DEXTER, R.

*Deputies.*

Warden, WILLIAM E. COOPER, D.  
Clerk, RUFUS H. WILLIS, R.  
Inspector,  
    " WALTER G. HAMLIN, R.  
    " ANDREW F. MITCHELL, D.  
    " SAMUEL E. MILLER, R.

## WARD FOUR, PRECINCT SEVEN.

Warden; WILLIAM F. CASWELL, R.  
Clerk, WALTER R. MYRICK, D.  
Inspector, AUGUSTUS D. PIPER, R.  
    "  
    " ARTHUR C. SPOONER, R.  
    " WILLIAM D. HOYT, D.

*Deputies.*

Warden, JAMES B. RUSSELL, R.  
Clerk, FRED'K A. BROWNELL, D.  
Inspector, CHARLES F. GROW, R.  
    " THOMAS J. PEED, D.  
    " WALTER F. LAWTON, R.  
    " EDWIN P. SOWLE, D.

## WARD FOUR, PRECINCT EIGHT.

Warden, GEORGE S. HOYT, D.  
Clerk, WILLIAM B. TOPHAM, R.  
Inspector, HENRY A. GRAY, D.  
    " FRED D. BARROWS, R.  
    " JAMES L. McCANN, D.  
    " WILLIAM E. CARROLL, R.

*Deputies.*

Warden, ARTHUR M. PIERCE, D.  
Clerk, SETH W. GODFREY, R.  
Inspector, JOHN W. CARTER, D.  
    " WILLIAM P. YORK, R.  
    " FELIX J. KANE, D.

## WARD FIVE, PRECINCT NINE.

Warden, ORRICK SMALLEY, JR., R.  
Clerk, CHARLES F. F. JONES, D.  
Inspector, ANTONE H. SENNA, R.  
" CHARLES D. RUSSELL, D.  
" CHARLES A. BENNETT, R.  
" GEORGE P. RICHARDSON, D.

*Deputies.*

Warden, GEORGE F. CURRY, R.  
Clerk, MICHAEL T. FRANCIS, D.  
Inspector, HARRY C. VAUGHAN, R.  
" JAMES J. DOWNEY, D.  
" FRANK B. RICKETSON, R.  
" JAMES J. DONAGHY, D.

## WARD FIVE, PRECINCT TEN.

Warden, CHARLES F. BRIGGS, D.  
Clerk, JOHN K. MCAFEE, R.  
Inspector, WILLIAM C. KENNEDY, D.  
" DAVID M. PIPER, R.  
" CHARLES S. BAYLIES, D.  
" FRANCIS A. BOOTH, R.

*Deputies.*

Warden, ISAAC C. SHERMAN, D.  
Clerk, GEORGE P. BROCK, R.  
Inspector, DANIEL G. DINIGAN, D.  
" JOHN C. EMERY, R.  
" GEORGE A. CAVANAGH, D.  
" CHARLES S. WING, R.

## WARD SIX, PRECINCT ELEVEN.

Warden, WILLIAM N. NELSON, D.  
Clerk, LEANDER A. WILLISTON, R.  
Inspector, DAVID PLUMPTON, D.  
" ROLAND R. ASHLEY, R.  
" JOHN J. MEANEY, D.  
" ANDERSON H. SWIFT, R.

*Deputies.*

Warden,  
Clerk, DAVID BROMLEY, R.  
Inspector, FRANK M. JENNINGS, D.  
" ALFRED CLARKSON, R.  
" MICHAEL STAPLETON, D.  
" WALTER W. SNAILHAM, R.

## WARD SIX, PRECINCT TWELVE.

Warden, HERBERT B. GARDNER, R.  
Clerk, N. HERBERT GREENE, D.  
Inspector, WILLIAM W. BONNEY, R.  
" GEORGE L. JENNINGS, D.  
" DANIEL E. NELSON, R.  
" FRANK CROACHER, D.

*Deputies.*

Warden, MARSHALL S. GREENE, R.  
Clerk, NORMAN BARSTOW, D.  
Inspector, CHARLES E. ALLEN, R.  
" ANTHONY ROBINSON, D.  
" FRANCIS THORLEY, R.  
" THOMAS J. MEANEY, D.

## WARD LINES.

CITY OF NEW BEDFORD,

IN BOARD OF ALDERMEN,

April 25, 1895.

*Ordered,* That in conformity with section 96 of chapter 417 of the Acts of the Legislature of the Commonwealth in the year 1893, the several wards of the city, until the first day of May, 1895, and until otherwise ordered, be and they are hereby divided and established according to the following described lines, to take effect January 1, 1896:

*Ward One.* All that portion of the city lying north of a line beginning at the river, and drawn through the center of Linden street to Ashland street, thence through the center of Ashland street to Durfee



street, and thence through the center of Durfee street to the west line of the city, will constitute Ward One.

*Ward Two.* All that portion of the city lying between a line drawn from the river through the center of Linden street to Ashland street, thence through the center of Ashland street to Durfee street, thence through the center of Durfee street to the west line of the city and a line drawn from the river through the center of Campbell street to County street, thence through the center of County street to Sycamore street, thence through the center of Sycamore street to Cedar street, thence through the center of Cedar street to Smith street, and thence through the center of Smith street to the west line of the city, will constitute Ward Two.

*Ward Three.* All that portion of the city lying between a line drawn from the river through the center of Campbell street to County street, thence through the center of County street to Sycamore street, thence through the center of Sycamore street to Cedar street, thence through the center of Cedar street to Smith street, thence through the center of Smith street to the west line of the city, and a line drawn from the river through the center of High street to County street, thence through the center of County street to Kempton street, thence through the center of Kempton street to the west line of the city, will constitute Ward Three.

*Ward Four.* All that portion of the city lying between a line drawn from the river through the center of High street to County street, thence through the center of County street to Kempton street, thence through the center of Kempton street to the west line of the city, and a line drawn from the river through the center of School street to County street, thence through the center of County street to Arnold street, and thence through the center of Arnold street to the west line of the city, including Fish and Pope's Islands, will constitute Ward Four.

*Ward Five.* All that portion of the city lying between a line drawn from the river through the center of School street to County street, thence through the center of County street to Arnold street, thence through the center of Arnold street to the west line of the city, and a line drawn from the river through the center of Grinnell street to Fourth street, thence through the center of Fourth street to Washington street, thence through the center of Washington street to Dartmouth street, thence through the center of Dartmouth street to Grape street, thence through the center of Oak and Grape streets to Rockdale avenue, thence through the center of Rockdale avenue to Allen street, and thence through the center of Allen street to the west line of the city, will constitute Ward Five.

*Ward Six.* All that portion of the city lying south of a line drawn from the river through the center of Grinnell street to Fourth street, thence through the center of Fourth street to Washington street, thence through the center of Washington street to Dartmouth street, thence through the center of Dartmouth street to Oak street, thence through the center of Oak and Grape streets to Rockdale avenue, thence through the center of Rockdale avenue to Allen street, and thence through the center of Allen street to the west line of the city, including Palmer's Island, will constitute Ward Six.

Adopted in concurrence.

Approved by the Mayor, April 27, 1895.

## VOTING PRECINCTS.

CITY OF NEW BEDFORD,

IN BOARD OF ALDERMEN,

April 23, 1896.

*Whereas*, By the provisions of chapter 417 of the Acts of the Legislature of 1893, it is made imperative that this Board divide the city into convenient voting precincts for the holding of all meetings for the choice of all officers who are elective by the people, it is hereby

*Ordered*, That the several wards of the city be, and they are hereby divided, into voting precincts for the holding of all meetings for the choice of all officers who are elective by the people, and that the dividing lines of said precincts be as is hereinafter defined.

### IN WARD ONE.

Said line shall begin at a point in the channel of the Acushnet river formed by the extension of the center of Cedar Grove street, thence westerly in said extended line and in the center of Cedar Grove street to the center of Cottage street, thence through the center of Cottage street to the center of Sutton street, thence west in the center of Sutton street to the center of Shawmut avenue, thence south in the center of Shawmut avenue to the center of Durfee street, thence west in the center of Durfee street in a straight line to the boundary line between the town of Dartmouth and the city of New Bedford. The precincts in said ward being further defined as follows: All that part of said ward lying north and west of the said division line shall be and is hereby made a voting precinct to be known as Precinct Number One; all that part of said ward lying south and east of the said division line shall be and is hereby made a voting precinct to be known as Precinct Number Two.

## IN WARD TWO.

Said line shall begin at a point formed by the extension of a line through the center of County street at its intersection with Linden street, thence south through the center of County street to the center of Locust street, thence through the center of Locust street to the center of Chestnut street, thence south through the center of Chestnut street to a point in said Chestnut street at its intersection with a line formed by the extension of a line through the center of Sycamore street. The precincts in said ward being further defined as follows: All that part of said ward lying east of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Three; all that part of said ward lying west of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Four.

## IN WARD THREE.

Said line shall begin at a point in the center of County street intersecting with a line formed by the extension of a line through the center of Sycamore street, thence south through the center of County street to its intersection with a line formed by the extension of a line through the center of High street. And is further defined as follows: All that portion of said ward lying east of said division line as drawn through the center of County street shall be and is hereby made a voting precinct to be known as Precinct Number Five; all that portion west of said division line as drawn through the center of County street shall be and is hereby made a voting precinct to be known as Precinct Number Six.

## IN WARD FOUR.

Said line shall begin at a point in the center of Kempton street at its intersection with a line formed by the extension of a line through the center of Summer street, thence south through the center of Summer street to its intersection with a line formed by the extension of a line through the center of Elm street, thence west through the center of Elm street to the center of Cottage street, thence south in the center of Cottage street to a point at its intersection with a line formed by the extension of a line through the center of Arnold street. And is further defined as follows: All that portion of said ward lying east of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Seven; all that portion lying west of said division line is hereby made a voting precinct to be known as Precinct Number Eight.

## IN WARD FIVE.

Said line shall begin at a point in the center of County street and in the center of School street, thence south in the center of County street

to the center of Bedford street, thence east in the center of Bedford street to the center of South Sixth street, thence south in the center of South Sixth street to its intersection with the center of County street, thence in the center of County street to its intersection with a line drawn through the center of Washington street. The precincts in said ward being further defined as follows: All that portion of said ward lying east of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Nine; and all that part of said ward lying west of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Ten.

#### IN WARD SIX.

Said line shall begin at a point in the center of Fourth street at its intersection with the center of Grinnell street, thence south in the center of Fourth street to the center of Rivet street, thence westerly in the center of Rivet street to the center of County street, thence southerly in the center of County street to Clark's cove, so called. The precincts in said ward being further defined as follows: All that portion of said ward lying east of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Eleven; all that portion of said ward lying west of said division line shall be and is hereby made a voting precinct to be known as Precinct Number Twelve.

ADOPTED.

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## FIRE DEPARTMENT.

#### CHIEF ENGINEER.

FREDERICK MACY, Term expires January, 1898.

Office, City Hall Building.

#### ASSISTANT ENGINEERS.

First—LORING T. PARLOW,	Term expires April, 1899.
Second—EDWARD F. DAHILL,	Term expires April, 1898.
Third—JAMES J. DONAGHY,	Term expires April, 1901.
Fourth—WILLIAM A. GIBBS,	Term expires April, 1900.

#### CLERK OF BOARD OF ENGINEERS,

FRED B. MACY,



## MEMBERS OF THE NEW BEDFORD PROTECTING SOCIETY.

*(Special Police Officers, to serve at fires.)*

Akin, Francis T.	Hammond, Edgar B.	Potter, William F.
Allen, George H. H.	Hammond, Henry F.	Read, William F.
Allen, Gideon	Haskell, Charles M.	Robbins, Arthur E.
Bamford, James H.	Holden, Charles H.	Robinson, William A.
Bamford, William	Howland, John J.	Rotch, Morgan
Bennett, George W.	Hutchinson, Henry S.	Richardson, Louis H.
Bentley, Lewis E.	Kelley, Charles S.	Sanford, Gardner T.
Bourne, Standish	Kingman, G. D.	Shaw, S. Edward
Bly, O. Frank,	Knowles, Thomas H.	Snow, Andrew, Jr.
Card, Byron F.	Lawton, Charles H.	Snow, Robert
Case, Charles A.	Lewis, Edgar R.	Swift, Leander H.
Coggeshall, R. C. P.	Lewis, William J.	Swift, R. W.
Cornish, Clifton H.	Lowe, John H.	Taber, Frederick
Denison, Henry C.	Macy, Frederick B.	Taylor, William T.
Dias, Joseph	Macy, J. Roland	Thornton, Alfred
Dunham, Ernest A.	Manchester, P. F.	Vincent, Mark T.
Dunham, Fred C.	Maxfield, Edmund F.	Washburn, F. A.
Eldridge, John, Jr.	Nye, Willard, Jr.	West, William R.
Francis, James P.	Paine, Charles L.	Whitehead, William
Gardner, Edward R.	Peirce, Stephen D.	Wilbor, Alfred G.
Gibbs, John E.	Penney, Edward F.	Wilde, Albert F.
Gifford, Charles H.	Phillips, George A.	Wilde, Edmond L.
Gifford, Frank H.	Pierce, Edward T.	Wood, Edmund
Gifford, Thomas J.	Pierce, Otis N.	Wood, Horace,
Hadley, A. W.	Pitman, William H.	Wood, Thomas F.

## POLICE DEPARTMENT.

CHIEF.

HENRY W. MASON.

CAPTAINS.

TIMOTHY C. ALLEN,

JAMES L. WILBER.

LIEUTENANTS.

LEMUEL D. ADAMS,  
 SETH E. BRYANT,  
 THOMAS W COMSTOCK,  
 THOMAS FAY,  
 ARTHUR H. JONES,

CHARLES L. MCBAY,  
 JOHN C. PARKER,  
 THOMAS J. TAFT,  
 JOSEPH B. WING.

## INSPECTORS.

FRANKLIN L. HATHAWAY, GEORGE E. GENDRON.

## SERGEANTS.

FOLEY, EDMUND  
GIFFORD, CHARLES C.ROSCOE, WILLIAM E.  
UNDERWOOD, WILLIS C.

## PATROLMEN.

ALDRICH, OSCAR F.  
ALLEN, EDGAR W.  
ALLEN, EDWARD  
ALLEN, ROBERT N.  
ALMOND, WALTER  
ALMOND, WILLIAM, JR.  
ARNETT, HENRY  
ARNETT, JAMES W.  
ATWOOD, WILLIAM W.  
BRIGGS, JOHN W.  
BROWNELL, MILTON A.  
CALLANAN, THOMAS F.  
CANNAMAN, PATRICK  
CHURCH, CHARLES B.  
CLOUGH, GEORGE H.  
CLARK, ULYSSES L.  
COLE, WILLIAM T.  
COWING, WILLIAM J.  
COX, JAMES M.  
DAHONEY, THOMAS,  
DALEY, JEREMIAH E.  
DEMERS, FRANK E.  
DENEEN, DANIEL  
DODDS, JAMES  
DOHERTY, EDWARD P.  
EARLEY, EDWARD C.  
ELDRIDGE, WASHINGTON A.  
ENOS, FRANK  
FANNING, JAMES F.  
FOWLER, WILLIAM  
HOWLAND, WILLIAM A. E.  
HUTCHINSON, JOHN J.  
IVEY, JAMES A.  
KENNEDY, PATRICK  
KENNEY, PATRICK  
KENT, CHANCELLOR  
LAWRENCE, GEORGE H.  
LEE, ALLEN L.LOWTHER, GEORGE H.  
MATHER, JOSEPH  
McCARTHY, EDWARD  
McCARTHY, JEREMIAH  
McDONALD, DANIEL J.  
McDONALD, DENNIS J.  
McDONNELL, JAMES  
McDONNELL, PATRICK  
McENNIS, ROBERT B.  
MEEHAN, DANIEL  
McLEOD, SAMUEL D.  
MOYNAN, ROBERT  
MURPHY, CORNELIUS J.  
OLIVER, JOHN F.  
PINKHAM, GEORGE W.  
RAYMOND, HIRAM E.  
REMINGTON, FRANK L.  
RHODES, HENRY W.  
RICKETSON, HARRISON D.  
ROOKS, JOHN C.  
RUSSELL, EUGENE F.  
SAVAGE, JAMES W.  
SISSON, JOSEPH DE L.  
SMITH, ANDREW J.  
SMITH, CHARLES F.  
STOW, HARRY D.  
SULLIVAN, JOHN D.  
SULLIVAN, TIMOTHY  
SWEENEY, DANIEL P.  
SYLVIA, FRANK W.  
TABER, JEREMIAH M.  
VOGEL, GEORGE  
VOGEL, ROBERT  
WESTON, STEPHEN J.  
WILLIS, RUFUS H.  
WINSLOW, GEORGE F.  
WIXON, JAMES A.

## EMERGENCY OFFICER, STATION ONE.

KENNEDY, PATRICK.

## HEALTH OFFICER.

MACOMBER, WILLIAM E.

## WAGONMEN.

JONES, JOHN M.

PAIGE, GEORGE W.

## DRIVERS.

JENNINGS, EDWARD F.

RYAN, WILLIAM M.

## HOUSEKEEPERS.

BUMPUS, HENRY W.

MITCHELL, WILLIAM H.

DAYTON, LUTHER M.

STEVENS, HENRY

HUMPHREY, DANIEL J.

WILSON, THOMAS H.

## SPECIAL HOUSEKEEPERS.

JONES, ISAAC M.

MANCHESTER, JOHN B.

ROBBINS, CHARLES H.

## MATRON.

BULLARD, MARGARET S.

## JANITOR.

DREW, MOSES C.

## CLERK.

WEST, HENRY N

## CONSTABLES.

## THE MEMBERS OF THE POLICE FORCE.

FRISSELL, AMASA R.

MOORE, LEWIS S.

SHERMAN, EDWARD T.

PERRY, SAMUEL C.

LA ROCHE, LOUIS

PATNAUDE, JOSEPH C.

MCDONNELL, MICHAEL

SPOONER, ARTHUR C.

## KEEPER OF THE LOCKUP.

WILBUR, JAMES L.

## PROBATION OFFICER.

COE, ISAAC H.

## SPECIAL POLICE OFFICERS.

Baker, Daniel W.	England, George	Kennedy, Augustus M.
Barker, Robert T.	Etchell, Edward	Kennedy, Thomas
Bartel, Leopold	Fay, Miles H.	Kent, James D. T.
Benoit, William R.	Ferguson, Joseph	King, Joseph T.
Bentley, Frank T.	Ferguson, William	Lapham, George W.
Berry, James H.	Finn, Michael	Lawrence, Cyrus T.
Bliss, Frederick P.	Fitzgerald, James	Leary, Dennis, Jr.
Bliss, William H.	Fournier, Napoleon J.	Lincoln, Ellery C.
Booth, Benjamin T.	Francis, Frank W.	Little, Frank
Borden, Prince S.	Frissell, Amasa R.	Little, John E.
Brown, William L. G.	Fuller, Jonathan A.	Loftus, Anthony
Buckley, Alfred R.	Garvin, Patrick F.	Lumbert, John
Burgess, Stephen	Geddis, Henry S.	Luther, Joseph P.
Burke, Michael I.	Gibbs, Nathaniel F.	McDermot, Michael
Burke, William	Gibbs, Preston H.	Macomber, H. M.
Butts, Henry R., Jr.	Gibbs, William H. H.	Miller, George
Chipman, James F.	Gifford, John	Morgan, Elias T.
Clark, Michael	Glennon, Thomas F.	Morrison, Thomas
Clark, William	Grant, Lafayette	Mosher, Albert E.
Clarkson, Nicholas J.	Greene, Marshall S.	Netcher, George F.
Clynes, Thomas	Hafford, Stephen, Jr.	Nicholson, John B.
Cole, William T.	Harrington, Cornelius	Nickerson, Charles F.
Collins, John	Harrington, Daniel	Nye, George E.
Conklin, Abraham	Harrington, J., Clark st.	Oliver, John
Connelly, Daniel J.	Hillman, George W.	Palmer, Robert
Corish, John	Hines, Henry S.	Parker, Charles W.
Corley, Maurice C.	Holloway, James T.	Partington, William
Cornell, Charles F.	Holmes, Ezra	Peckham, Samuel W.
Cornell, Sidney I.	Holmes, John J.	Peed, Thomas J.
Crafts, James	Horton, Eliphalet M.	Peirce, Anthony, Jr.
Crafts, James F.	Houle, Dolor A.	Perry, Samuel C.
Cronin, Cornelius	Howard, Henry	Phillips, Henry T.
Dammon, George K.	Howland, William G.	Pierce, Thomas H.
Davenport, Charles H.	Hurll, Daniel	Pinelle, Joseph
Davis, Otis A.	Jay, James A.	Piper, Augustus D.
Dean, Thomas F.	Jenney, Ezra T.	Piper, Julien A.
Devoll, George H.	Johnson, Oscar	Place, William J.
Donaghy, Joseph	Johnson, W. H., Smith	Pollock, John H.
Downey, Daniel	street.	Preece, Thomas
Duckworth, William A.	Jones, Isaac M.	Quinn, Joseph
Duffy, Thomas	Joseph, John	Rau, Gustavus L.
Durant, Lawrence J.	Karcher, Frederick, Sr.	Read, George P.
Durfey, Richard T.	Karcher, Frederick, Jr.	Read, Richard A.
Eldredge, Samuel T.	Kelley, Hiram C.	Remington, John G.



Reynolds, James R.	Spooner, Joseph W.	Tuell, Charles D.
Richie, David	Staples, Elias	Warfield, James H.
Robbins, Charles H.	Stephens, Michael	Waters, Charles O.
Rooks, Albert H.	Sullivan, James H.	Watts, William H. C.
Russell, James B.	Sullivan, Matthew	Weeden, Charles H. L.
Sadler, William G.	Tallman, Edward S.	Welsh, William
Salmon, John	Taylor, Theodore	Wilbur, Allen R.
Saxon, James H.	Taylor, William A.	Wilcox, Seth A.
Sharples, Smith	Taylor, William J.	Wiley, James
Shea, Michael J.	Thomas, Edward, Jr.	Williams, Benjamin F.
Small, David S.	Thompson, Thomas	Jr.
Smith, Henry	Tinkham, Otis	Williston, Hiram L.
Smith, Henry H.	Tripp, Benjamin E.	Wilson, John
Spicer, Robert H.	Tripp, Chester L.	Wood, Charles N.
Spooner, John C.	Tripp, LeRoy G.	Wood, James A.

## MEASURERS OF WOOD AND BARK.

Ashley, Roland R.	Coxen, Charles H.	Morse, Charles M., Jr.
Chace, Ira M.	Dillingham, Abram L.	Notter, John
Cobb, George A.	Grinnell, A. B., Jr.	Rodman, Frank P.
Coffin, Stephen P.	Gurney, William A.	Smith, John
Comey, Charles M.	Hall, George N.	Taber, Edward C.

## SURVEYORS OF LUMBER.

Beetle, John H.	Doane, Joshua G.	Hayes, Lemuel W.
Chase, Abram	Graham, Robert P.	Smith, Charles F.
	Terry, Charles A. V.	

## MEASURERS OF GRAIN.

Chace, Ira M.	Rodman, Frank P.
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## WEIGHERS OF COAL.

Agard, Charles W.	Godfrey, Eva B.	Rogers, Nella L.
Boardman, Harry C.	Gray, Charles A., Jr.	Rose, Frank E.
Bowman, Fred G.	Hathaway, B. F., Jr.	Rounsevell, Walter S.
Brooks, Nathan B.	Howard, Henry	Sherman, Zoeth W.
Buchanan, J. Wallace	Hunt, Josiah	Smith, John
Chace, Ira M.	Knowles, William H.	Terry, Herbert C.
Comey, Charles M.	Lindsey, Robert	Thompson, Charles E.
Corson, Frank E.	Negus, Southward P.	Tripp, Jabez D.
Cuddy, Edward C.	Percy, T. A.	Wilson, Wallace B.
Day, Thomas E.	Peirce, Edward E.	Wood, Harry B.
Doane, Arthur E.	Pollard, Andrew C.	Wordell, Wilson I.
Gibbs, John E.	Reed, Edmund A.	Worden, John O.
Gifford, Nathaniel W.	Rodman, Frank P.	

## CITY WEIGHERS.

Agard, Charles W.	Gifford, Nathaniel W.	McKenzie, Robert
Albiston, Clayton	Gilbert, Peter	Miller, David
Allen, George H.	Gile, J. F.	Neagus, John P.
Anderson, Arthur	Gilmore, Thomas	Negus, Southward P.
Ashley, Calvin L.	Gilston, John W.	Nowell, Joseph C.
Ashley, Clara M.	Godfrey, Eva B.	O'Brien, Thomas
Ashley, Moses E. H.	Grant, Lafayette	O'Connor, Cornelius
Ashley, Roland R.	Gray, Charles A., Jr.	Patnaude, Joseph
Bearse, Albert C.	Greene, Luthan J.	Paul, George H.
Benson, Annie C.	Greene, Nathaniel H.	Pedro, George E.
Blanchard, C. S.	Gurney, William A.	Peirce, Edward E.
Boardman, Harry C.	Harney, John	Percy, T. A.
Bowman, Fred G.	Hassett, James	Perry, John S.
Bradford, Edgar V.	Hathaway, B. F., Jr.	Podinan, Edward
Brooks, Nathan B.	Hayden, Edward D.	Pollard, Andrew C.
Brownell, Charles H.	Hill, Robert	Potter, Edwin L.
Buchanan, J. Wallace	Hitch, Frank B.	Quinn, J. T.
Butts, James D.	Howard, Henry	Reed, Edmund A.
Chace, Ira M.	Howland, Beriah G.	Robinson, James
Cleary, Daniel J.	Hunt, Josiah	Rodman, Frank P.
Cobb, George A.	Inman, Harry C.	Rogers, Nella L.
Comey, Charles M.	Jackson, Axel H.	Rose, Frank E.
Comisky, John	Jennings, Charles E.	Rounsevell, Walter S.
Corneau, Philip	Jennings, George L.	Ryan, Joseph M.
Cornwell, Joseph F.	Jennings, John	Sanderson, James
Corson, Frank E.	Jennings, John W.	Sherman, David W. Jr.
Craft, James F.	Jennison, Frederick R.	Sherman, Zoeth W.
Cuddy, Edward C.	Jewett, Charles A.	Shirley, Percy E. S.
Cushing, Joseph B.	Johnson, Ferdinand A.	Sisson, Frank E.
Day, Thomas E.	Kenney, Edward D.	Snow, Henry K.
Doane, Arthur E.	Kidd, George H.	Snow, Richard B.
Donley, William	King, Manuel	Sullivan, John B.
Duff, John	Knowles, William H.	Sullivan, William H.
Durfee, William A.	Lamontagne, Frank	Swift, Reuben E.
Dyer, Edward C.	Lee, John A.	Sylvia, Antone L.
Edwards, Charles F.	Lees, William	Taber, Edward C.
Emerson, Charles P.	Lewis, Henry S.	Terry, Herbert C.
Ferns, Joseph	Lewis, Marshall F.	Thompson, Charles E.
Field, Edward H.	Lindsey, Robert	Tilton, Herbert E.
Foley, Timothy	Lynch, Simon F.	Tripp, Jabez D.
Foster, Charles	Lyons, John	Tripp, John E.
Gibbs, John E.	Macomber, Harry T.	Tripp, Joseph J.
Gibbs, J. Edward, Jr.	Mason, Frederick A.	West, Florence B.
Gibbs, William H. H.	McCarthy, Mortimer	West, John

Willis, Charles L.	Wood, John	York, Joseph
Wilson, Wallace B.	Wordell, Wilson I.	
Wood, Harry B.	Worden, John O.	

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## WEIGHERS OF BOILERS AND HEAVY MACHINERY.

Bowman, Fred G.	Gray, Charles A., Jr.	Stone, Walter A.
Brooks, Nathan B.	Hathaway, B. F., Jr.	Sisson, William H. H.
Corson, Frank E.	Howard, Henry	Smith, John
Godfrey, Eva B.	Sherman, Zoeth W.	

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## FENCE VIEWERS.

Cobb, George A.	Pierce, Crawford S.	Williston, Leander A.
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## POUND KEEPERS.

Luther M. Dayton,	Manchester, John B.
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## FIELD DRIVERS.

The Police,	William H. Johnson (Smith st.),	John B. Manchester.
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1896—CITY DOCUMENT No. 3. .

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CITY OF NEW BEDFORD, MASS.

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TWENTY-SEVENTH ANNUAL REPORT

OF THE

NEW BEDFORD WATER BOARD

TO THE

CITY COUNCIL,

CONTAINING :

I.

The Report of the New Bedford Water Board for 1896; including the  
Ninth Quarterly Report upon the Further Water Supply.

II.

The Report of the Water Registrar.

III.

The Report of the Superintendent.

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DECEMBER 31, 1896.

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NEW BEDFORD :

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.



# NEW BEDFORD WATER BOARD.

1897.

---

CHARLES S. ASHLEY,

*Mayor of the City.*

---

GEORGE P. BAILEY,

*President of the Common Council.*

---

THOMAS B. TRIPP.

DAVID B. KEMPTON.

EDMUND WOOD.

---

CLERK OF THE BOARD, AND SUPERINTENDENT.

ROBERT C. P. COGGESHALL.

---

WATER REGISTRAR.

JAMES H. HATHAWAY.

---

FOREMAN.

JOHN C. DEMELLO, JR.

---

PUMPING STATION.

ADONIRAM S. NEGUS, *Pumping Engineer.*

---

INSPECTORS.

CLIFFORD BAYLIES.

ARTHUR R. WEEKS.

# REPORT.

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CITY OF NEW BEDFORD,  
OFFICE OF NEW BEDFORD WATER BOARD,  
December 31, 1896.

*To the City Council of the City of New Bedford:*

Gentlemen:—The New Bedford Water Board herewith respectfully submit their twenty-seventh annual report and their ninth quarterly report upon the Further Water Supply.

As the general maintenance of the present works have been constantly interwoven with our deliberations and action on the Further Water Supply, we will now trace both divisions in one report to you.

The past year has been a notable one in the history of this department. It has been one of accomplishment, of actual construction and of a very large outlay of money.

The work of adding to our water supply had been the subject of careful consideration and study during the preceding two years. Elaborate surveys for every portion of the work had been made, rights had been obtained from the State, the best route for the different pipe lines determined on, most of the necessary land purchased or taken, and plans had been gradually matured for the new construction. This year this preliminary work has culminated in the actual building of the different parts of the system and our citizens have been able to gain a clearer idea of the general scheme by watching different parts of the work in actual construction. By far the largest part of an

expenditure of over a million dollars will be placed underground and show nothing to the tax payer to account for the money spent except the general results. This very characteristic of the work makes it a most responsible and critical undertaking. Every step of the advance must be inspected immediately, each act approved in the very doing for the concealing earth is speedily thrown over it and the opportunity is gone.

The general plan outlined in our previous reports to you has been closely followed. The large distributing reservoir on High Hill in Dartmouth has been finished. Its massive walls and broad embankments have already received the enthusiastic praise of visiting experts. The masonry and concrete have been protected from the frosts by covering it with water. This was accomplished by pumping backward into it the water from New Bedford. Rising above the lower levels in our city 216 feet this enormous body of water, 68,000,000 gallons, stands ready to flow through our whole distribution system by the opening of one or two valves. Although a long time must still elapse before the new system can be put into regular use, yet the most dangerous defect in our present system has already been remedied. In case of any accident to our pumping plant or the conduit we have from ten to twenty days' supply already in reserve to tide us over the difficulty.

When we stop to consider how close to the wind we have sailed during the last three years, using for weeks at a time every gallon of water we could get down to the city through our overtaxed and defective conduit, we feel that the citizens should felicitate themselves that a very imminent danger has been nullified.

The large cast iron distributing main pipe, 36 inches in diameter which conducts the water from the new reservoir into the city has now all been laid.

The substantial standard gauge railroad which was projected to run from Braley's Station on the New York, New Haven & Hartford Railroad northeast to the pumping station at Little Quittacas Pond is also finished and is being used to good advantage in lessening the cost of construction.

Work is progressing on the 48-inch steel force main through which the water is to be pumped from the Quittacas Ponds to the reservoir, about 8 miles. That portion from Braley's Station to the reservoir is about finished. The contract has been let for building the foundations for the pumping station and the subterranean intake for the water extending 400 feet out into the pond.

For many months the plans have gradually been worked out for the pumping station buildings. They will consist of an engine house, boiler house and a large coal shed into which from a lofty trestle the cars of coal will be directly discharged. The buildings are to be of stone and nearly fire proof. In a few weeks these plans will be put into the market for bids.

The plans for a specially designed engine prepared by Mr. E. D. Leavitt of Cambridgeport have been completed. This manner of securing our engines was described to you in our last annual report and the reasons which influenced us in this decision. The most economical engine possibly attainable through the highest skill and most eminent talent to be secured in the country is our quest. Through a long series of years the economy of performance, through the saving of coal and the absence of constant repairs, will pay liberally for any increase in the first cost. The contract for building two engines from these plans, each of a capacity to pump 10,000,000 gallons every 24 hours, has been placed, and work on them has begun. The most important part of these engines are the steel forgings. To insure the very best possible material the contract for furnishing these rods, stems, shafts, etc., was let separately.

Two concerns were singled out as preeminently the best, Fredrick Krupp in Essen, Germany, and the Bethlehem Iron Works in Pennsylvania. The Bethlehem concern slightly underbid Krupp and they have received the contract.

This is a brief review of the important steps taken this year in the way of construction. These are by far the largest contracts ever placed by our city and, for the further information of those of our citizens who may wish a fuller statement and also that you may have the record of such important matters, a more detailed report of the different contracts is now given.

And first we will consider the contract with W. P. Latham & Co. for constructing the High Hill reservoir. This contract was executed in July, 1895, and was the first important work started in connection with the new supply. Considerable progress was made last year but the work was closed with the advent of cold weather. It was resumed on April 15th and was vigorously pushed to completion. Great care was taken in building the embankments. Each five inches of new earth was freed from stones, then sprinkled and thoroughly rolled by a steam road roller. The inside slopes and bottom have been laid in concrete, that upon the bottom being six inches thick and nine inches thick upon the slopes. This layer of concrete extends to, and upon, a berme which is five feet below high water level. A perpendicular masonry wall rises from this berme to a height two feet above the water level. The banks have been covered with loam and seeded and the top has been sodded. All rubble masonry work was completed October 10th and the last piece of coping was placed October 15th. All concreting was completed October 16th. The brick lining and paving of the outlet chambers was completed October 21st and on the 26th inst. all work upon the embankments had been finished. At



this time the engineers certified to the satisfactory completion of this contract.

The contract with the Coffin Valve Co. for furnishing and setting sluice gates was completed November 7th.

The water surface of this reservoir when full is 1,000 feet by 500 feet and 20 feet deep.

It required 32 days constant pumping at the Purchase street station to fill it.

During the coming year it will be necessary to place a gate house over the gate chambers and the construction of a fence around the entire reservoir is contemplated.

As this reservoir was located directly in the line of the High Hill road in Dartmouth it has been necessary to build a new road around it on the west side. This has been done in consultation with the road commissioners of Dartmouth and the cost of so doing has been about \$1,500.

A telephone station has been established at this reservoir.

In our report of last year we stated that a contract had just been awarded the Warren Foundry & Machine Co. of Phillipsburgh, New Jersey, for the cast iron pipe and special castings required for the distributing main leading from High Hill reservoir to the city. Deliveries upon this contract commenced in February, and by far the greater portion arrived in barges and was landed upon the Wamsutta Mills wharf previous to August. The remainder was received by rail and the entire contract completed in October. The number of castings received was 1,713 pieces of 36-inch straight pipe, 397 pieces of 30-inch straight pipe, and small amounts of different sized pipes varying from 24-inch to 6-inch. Also 247 pieces of special castings. In weight this amounts to 5,047 gross tons. This pipe was delivered at convenient places near the line of its final location by this department, the work being divided among several teamers, a portion being done by the Board of Public Works.

That portion of this main lying in Mt. Pleasant street from the Nash Road south to Durfee street was placed by the employes of this department. This work was commenced April 25th and completed September 22d. Further details concerning it will be found in the Superintendent's report.

A contract for laying the balance of this work was made with James J. Newman of Providence, R. I., on June 26th and he commenced work at the Nash Road a few days later. This pipe is laid northerly through Mt. Pleasant street and the Plainville Road to Shawmut corner, where it turns to the right into the Assonet Road, crossing Turner's Pond on the bottom, west of the road bridge, and continuing a short distance beyond it turns to the left and passes through a 60 foot way direct to the reservoir. By an agreement made with Mr. E. G. Turner the water was drawn from his mill pond from August 15th to November 1st for the purpose of placing this pipe in a trench excavated along the bottom. This main connects with the reservoir through the gate chambers located in the westerly bank. A 36-inch by-pass properly gated connects with the 48-inch force main on the easterly side of the reservoir, thus giving us a direct connection from the Quittacas pumping station to the city independent of this reservoir. A number of hydrants have been placed in Mt. Pleasant street and through the Plainville district. All work required by this contract is now about completed.

On February 27th a contract was signed with W. L. Miller for building a railroad from Braley's Station northeast to the proposed pumping station location at Little Quittacas Pond, a distance of  $4\frac{4}{10}$  miles. The land at this place is about 37 feet below the grade of the consolidated road at Braley's Station. Leaving Braley's this road enters a cut some 1,500 feet in length and with a maximum depth of 20 feet. A side track is here located. A short distance beyond it enters Bolton Cedar Swamp, which it cross-

es upon trestle work some 6,250 feet in length. This has been filled, tamped and shouldered, the filling being brought from the borrow pit owned by the city and located upon the Wäger farm. The remainder of the road continues upon easy grades to its destination. Several culverts have been placed along its line where it was found to be necessary. Work was commenced upon this contract early in March and the final estimate was submitted by the engineers September 25th.

This road is in a part to facilitate the process of construction. By its help the 48-inch steel pipe has been delivered along the line of its location, which is parallel to the railroad and 15 to 25 feet distant therefrom. All material for the pumping station, as well as the heavy castings for the engines and the boilers, will be transported directly to the site.

This road will be eventually used in carrying the coal and other supplies to the pumping station.

On March 31st a contract was signed with the Carroll Porter Boiler & Tank Co. of Pittsburgh, Pa., for furnishing and placing the 48-inch riveted steel force main from the proposed pumping station at Little Quittacas Pond to the High Hill reservoir. This is the largest and perhaps the most important contract in the whole work. Bids were received on two methods of constructing the pipe, one with butt joints and countersunk rivets, giving a flush inside surface for the flow of the water and the other with telescopic joints and projecting rivets. On account of the large additional cost of the butt form of construction, (more than \$22,000,) the Board decided to use the telescopic method. Nearly all the pipe required in this work has been delivered along the line of location. They are made in sections 30 feet long and, after passing a rigid shop inspection, are brought on cars from Pittsburgh, where they were made, to Braley's Station. These sec-

tions are placed in the trench and then riveted together. About every two thousand feet of the line is submitted to a water test pressure of 150 pounds per square inch. This pressure is maintained until all the leaks under the test are properly caulked and the pipe made tight. All this is done before it is covered with earth.

At this date, with the exception of five gaps left for tests, this pipe has been laid on the division between Braley's Station and the reservoir for about 18,800 feet, or, generally speaking, from the road at Braley's Station to within a short distance of the reservoir. This has already been tested complete for 13,300 feet and is now being tested for about 3,000 feet more. For some distance beyond the tested portion painting of the inside of the pipe is complete. Riveting and caulking are now being continued on portions near the reservoir. Embankment over the pipe and backfilling is about completed for the first three tested sections.

On the division from Braley's Station to the pond the piles have been driven, and nearly two-thirds of them have been sawed off and capped.

The trench has been excavated from the south side of Bolton Cedar Swamp to some distance beyond the Middleboro road, and also from a point near the road leading north from C. A. Morton's corner to the dry swamp ditch.

It may be interesting to add a word concerning the thorough manner in which the steel pipe has been inspected. From the first heat of metal at the Homestead Works until the pipe is finally covered in the trench it is carefully watched. A chemical test to determine the amount of sulphur and phosphorus in each plate, the rolling of each plate, the riveting of all seams, the cleaning and freeing of each plate from all rust and scales, the coating with asphalt and finally the placing in the trench; after which, the pipe is subjected to a hydraulic pressure of 150 pounds



and all leaks which appear are caulked. Over each of these successive steps a strict inspector has been placed, and it would seem as if no pains had been spared to ensure a complete piece of workmanship.

The location of the pumping station is to be near the "Devil's foot," a rocky point projecting from the southerly shore of Little Quittacas Pond.

On October 21st a contract was signed with Acock & Son of Trenton, N. J., for building the foundations for the engines, boilers, engine house, chimney, etc., the gate chamber in Little Quittacas Pond, the pump well, the conduit connecting gate chamber with pump well, a connection between Great and Little Quittacas Ponds with the contiguous chambers and retaining walls, such grading and the laying of such rip-raps as may be required, etc.

Work was commenced on this contract early in November and a partial excavation has been made for the engine and boiler house. The contractors have erected a store house and all tools are upon the ground. As much work as possible in grading and placing rip-raps will be done during the winter months but no masonry will be placed until early spring.

Early in the year the thick ice upon the ponds enabled the completion of an accurate survey of the shores of the two ponds. The surface of both ponds was cross sectioned like a checker board into 50-foot squares and accurate soundings were taken at every intersection. Thus a contour map of the bottom of both ponds has been obtained from which their capacity in gallons at different levels can be computed. Plans of the whole water shed of the two ponds are now being prepared.

Rain gauges located in chosen localities and regularly observed give us the data for computing the amount of water which can be depended upon.



It has been an unusually busy year for the regular work of the department as will be seen by glancing over the Superintendent's report.

On June 25th Mr. Edmund Wood was re-elected a member of the Board, for a term of three years.

A contract was signed August 24th by the fuel committee of the City Council with Garfield & Proctor for a supply of 1,200 gross tons of Pocahontas coal, the consideration being \$3.55 per gross ton delivered at the pumping station

On December 17th a contract was made with the Walworth Manufacturing Co. of Boston for the usual supply of screw taps and stops. The consideration was from 50 cents to \$1.05 each for taps and from 40 to 83 cents each for stops.

A contract was signed on December 4th with R. D. Wood & Co. of Philadelphia for 585 gross tons of cast iron pipe and about 14,000 pounds of special castings. The consideration is to be \$18.94 per gross ton for the straight pipe and  $1\frac{95}{100}$  cents per pound for special castings. Both prices include delivery on wharf in New Bedford early in April.

The following is a brief statement of the financial operations of the past year :—

Balance Dec. 1st, 1895,	\$39,803.43
Receipts for the year, all sources,	115,185.05
	<hr/>
	\$154,988.48

The charges have been as follows :—

Expenditures for management and repairs,	\$76,288.85
Expenditures for extensions,	40,877.46
	<hr/>
	\$117,166.31

Which leaves a balance to the credit of the works on the books of the City Treasurer Dec. 1st, 1896,	\$37,822.17
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## DEBITS.

Balance Dec. 1st, 1895,		\$39,803.43
Receipts from water rates,	\$94,157.07	
Receipts from rents, sales, &c.,	1,559.42	
Receipts from laying main and service pipes in private property and fines,	7,468.56	103,185.05
General appropriation for use of water for public pur- poses,		12,000.00
General appropriation from tax levy to make up deficit,		34,883.33
		<hr/> \$189,871.81

## CREDITS.

Management and repairs less interest, bonds paid and sinking funds,	\$29,588.85	
Extension of works,	40,877.46	
Interest on bonds, general appro- priations,	\$28,883.33	
Interest on Sylvia Ann Howland fund, general appropriations,	6,000.00	
Interest paid from water rates,	12,000.00	
Bonds paid from water rates,	20,000.00	66,883.33
Sinking funds paid from water rates,	2,700.00	
Sinking funds (further supply) paid from water rates,	12,000.00	
Balance Dec. 1, 1896,	37,822.17	\$189,871.81

The actual outlay for the construction of these works Dec. 1st, 1896, exclusive of debt, interest and management and repair account is \$1,702,386.06.

Statement of Further Water Supply account:—

## RECEIPTS.

Bonds sold,	\$1,000,000.00
Premium on same,	89,701.50
From water rates to pay sinking funds,	20,000.00
From general appropriations to pay interest,	20,017.33
Sales, &c.,	1,931.16
	<hr/> \$1,131,649.99

## EXPENDITURES.

Amount paid as per schedule,	\$714,312.35	
Sinking funds,	20,000.00	
Interest on bonds,	20,017.33	754,329.68
Balance to credit of account,		<hr/> \$377,320.31

Seventy-one petitions have been received for the extension of main pipes. Of this number sixty-two have been granted.

Forty-eight thousand eight hundred ninety-five feet of main distribution pipe has been laid and eight thousand three hundred fifty-eight feet of that previously laid has been removed, making a total of  $83\frac{9638}{10000}$  miles now in use.

The number of service pipes has been increased 420. The total number now in use is 8,447.

In April a report was received from Messrs. Stone & Webster, electrical experts, of an investigation of the action of electric currents on water pipes.

It will be remembered that at the time the Union Street Railway extended the use of electricity as a motive power over their whole system, a fear was entertained that the escaping currents in the earth would seriously affect the iron and lead water pipes. Many cities had had sorrowful experience with this new and little understood electrolytic corrosion.

A thorough examination of the water pipes was made for the purpose of ascertaining what action was already occurring, and also for the purpose of gaining information with regard to the electrical condition of the pipes in general, so that if future trouble occurs the source can more definitely be located. In all about 1,000 tests were made. Several places were found where a corrosive action was taking place. Six months later another examination was made and still another series of tests after another six months. A gradual improvement was found in the electrical condition of the pipes. There is no doubt from this report of our experts that this improvement was caused by the extra precautions taken by the Street Railway Co. and its liberal expenditure for various devices to lessen the escaping currents. We quote the conclusion of this careful report:

"It is impracticable with the present system of equipping electric roads to eliminate entirely all electrolytic action, but much can be done toward that end.

The use of heavy rails, double bonding, supplementary returns, either overhead or underground, or both, all help materially in the preservation of the pipes. These things the railway company has attended to admirably with the result that corrosive action on the pipes is at a minimum.

Notwithstanding these precautions, however, owing to the continual changes which are going on in the conductivity of the ground, to the new piping that is being laid, to new railways that are being installed and especially to the deterioration of rail bonds which is likely to occur at all times, it is advisable that the electrical conditions of the pipes be investigated at intervals, and the necessary connections made at various places to keep the potential at a minimum and reduce electrolytic action.

The remedy that was proposed of connecting the pipes in Bridge Square to the power house by a heavy copper wire seems on later investigation to be superfluous, either on account of the fact that the return circuit is improved over what it was when the investigation was begun or else that the railway company has already done something in this direction.

From the tests in the vicinity of County street we consider it advisable not to delay longer than necessary the removal of the old cement pipe and the laying of iron pipe in its place."

The land along the line of the force main and distributing main has been condemned and settlement in most cases has already been effected with the owners.

The policy of acquiring the shores of both Great and Little Quittacas has been still further pursued. A few tracts are yet unpossessed by the city. Although this

action was not contemplated in our original scheme, and we made no mention or estimate of this expenditure in our estimates on which your appropriation was based, yet the general favor and approbation expressed by the citizens for this action of the Board, when it was first made known, has confirmed our belief that ultimately the city should actually own all right and title in all the land directly bordering on both ponds.

It is a grimly humorous fact that when it became known that the powerful and infinitely rich city of New Bedford was the real purchaser of all the land which had quietly and rather anonymously changed hands there was a sudden and marked appreciation of the value of the remaining land. Some parties who had yielded to the fascination of the stories of the Great West and had for months offered their farms for sale, that they might emigrate unencumbered to that land of promise, discovered suddenly that their hearts were indissolubly bound to the soil of their ancestors and that nothing could induce them to break these heart bonds unless it might be a liberal payment of money for the dear old land, and another for the wanton destruction of sentiment and the love of home.

After a cool and careful analysis it is generally found, though, that these prices are subject to a trade discount.

Lest this statement sounds a little heartless to some it is but fair to state that we have had the best of local appraisers to help us in valuing the land. It has been the policy of this Board to pay the full market value of land, as nearly as it can be arrived at by disinterested persons plus an added amount, to insure a liberal treatment of the holder of the land by a corporation which seeks the land for public uses. In our opinion the prices already paid by us are not only equitable but liberal and they will certainly influence the price to be paid for that still remaining. It is only against that almost ludicrous inflation of



value which heralds the approach of the municipal buyer that we here direct our satire and enter our protest.

Very respectfully submitted,

DAVID L. PARKER,  
ARTHUR L. BLACKMER,  
THOMAS B. TRIPP,  
DAVID B. KEMPTON,  
EDMUND WOOD.

# Report of the Water Registrar.

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CITY OF NEW BEDFORD,  
WATER REGISTRAR'S OFFICE,  
December 1st, 1896.

*To the New Bedford Water Board,*

Gentlemen:—I herewith present to you the annual statement of my accounts as Water Registrar for the year ending at this date.

## RECEIPTS.

Balance Dec. 1, 1895,		\$39,803.43
Receipts for water:		
Rates, domestic,	\$85,866.74	
Rates, manufacturing,	8,290.33	
Appropriation for public buildings and fire hydrants,	12,000.00	\$106,157.07
Receipts for services,		3,770.79
Receipts for meters,		1,290.34
Receipts for fines,		52.00
Receipts for mains,		3,054.78
Receipts for mill piping,		590.99
Receipts for shop work,		43.09
Receipts for incidentals,		167.14
Receipts for hydrants,		4.35
Receipts for pumping station,		3.50
Receipts for sale of hay,	51.00	115,185.05
		<hr/>
		\$154,988.48
Expenditures for the year ending Dec. 1, 1896,		117,166.31
		<hr/>
Balance cash in treasury Dec. 1, 1896,		\$37,822.17

# WATER REPORT.

19

## EXPENDITURES.

### MANAGEMENT AND REPAIRS.

#### Engineering and superintendence :

Salaries  
per year.

\$2,400	R. C. P. Coggeshall, sup't,	\$2,386.67	
1,200	J. C. DeMello, Jr., foreman,	1,193.33	
500	Stephen H. Taylor, office ass't,	795.56	
400	F. L. Pope, Jr., office ass't,	372.78	
	Pay roll,	46.05	\$4,794.39

#### Water Registrar :

1,000	James H. Hathaway, water reg.	994.44	
1,000	Clifford Baylies, inspector,	994.44	
850	Arthur R. Weeks, inspector,	845.28	2,834.16

#### Inspection and clerk hire :

	Joseph P. Rose,	620.44	
	Posting accounts,	31.50	
	Annual inspection,	239.89	
	Distributing water bills,	80.00	971.83
			<hr/> \$8,600.38

#### *Pumping Expenses :*

##### Engineers, firemen and watchmen,

1,600	A. S. Negus, engineer.	1,591.11	
1,025	Patrick Gibbons, ass't eng'r,	1,019.31	
	James H. Weeks, " "	780.00	
	Herbert F. Teachman, " "	728.00	
	Cornelius J. Buckley, fireman,	578.00	
	Edwin F. Drown, " "	637.00	
	Michael Finn, " "	639.00	
	J. J. DaSilveira, laborer,	260.00	
	Pay roll, labor,	120.60	
		<hr/> \$6,353.02	
	Fuel for pumping engines,	4,209.77	
	Oil, waste, packing and gas,	231.35	
	Other supplies,	209.69	
	Repairs of engines,	177.92	
	Repairs of boilers,	256.73	
	Incidentals,	276.89	
	Maintenance of engine house and lot,	119.03	11,834.40
	Maintenance of mains,		827.20

## Services :

Labor and stock,	\$13.46	
New stop boxes, clearing taps, etc.,	754.20	
Plumbing,	298.71	\$1,066.37
Fountains and meters,		345.75
Storing reservoir, dam and conduit,		422.90
Receiving and distributing reservoir and stand pipe,		1,099.97
Board of horses,		832.00
Shoeing and maintenance of horses,		120.83
Repairing wagons and harnesses,		217.80
Incidentals,		8.93
Rent of telephones,		435.50
Registration clerk,		66.66
Traveling expenses, car fares, etc.,		173.46
Telephone and telegraph despatches,		15.46
Postage,		53.95
Office supplies,		76.43
Printing and stationery,		396.58
Expressage,		9.40
Typewriting and copying,		7.00
Electrolytic examination,		473.15
Taxes,		40.61
New carriage,		125.00
Connection with Little Quittacas,		292.51
Water street work shop and pipe yard,		2,023.85
Supplies for meteorological instruments,		22.75
Permanent debt, bonds paid,	\$20,000.00	
Permanent debt, interest,	12,000.00	32,000.00
Sinking funds,		2,700.00
Sinking funds, further water supply,	12,000.00	\$76,288.85

## EXTENSIONS.

## Mains :

Main pipe and special castings,	\$18,705.95	
Stop gates, hydrants, etc.,	1,822.78	
Lead, carting and blacksmith work,	3,290.62	
Other supplies,	899.54	
Labor laying mains,	5,984.26	
Unloading pipe and wharfage,	549.33	\$31,252.48
Services :		
Service pipe, lead and iron,	2,696.18	
Taps, stop boxes and other supplies,	1,253.63	
Labor laying services,	2,118.18	

Plumbing,	462.84	6,530.83	
Fountains and meters,		2,361.99	
Mill piping,		732.16	40,877.46
Total expenditures for the year,			<u>\$117,166.31</u>
Whole outlay upon the works to this date,			\$2,525,492.48
Balance Dec. 1, 1896,			<u>37,822.17</u>
			<u>\$2,563,314.65</u>

The receipts from the commencement of the works to this date have been as follows, viz. :—

Appropriations by the City Council,		\$1,038,000.00	
Receipts for water and other sources,		<u>1,525,314.65</u>	
		\$2,563,314.65	
Deduct total outlay,		<u>2,525,492.48</u>	
Balance as above Dec. 1, 1896,		\$37,822.17	
Outlay as above,		<u>\$2,525,492.48</u>	
Deduct from outlay,			
Paid for management and repairs,	\$578,618.28		
Interest paid,	107,788.14		
Bonds paid,	105,000.00		
Sinking funds,	11,700.00		
Sinking funds, further water supply,	20,000.00	823,106.42	
Actual cost of works,		<u>\$1,702,386.06</u>	
Total receipts for water,		\$1,525,314.65	
Deduct the amount paid for maintenance, debt, interest, and sinking funds,		<u>823,106.42</u>	
Water receipts applied to construction,		<u>\$702,208.23</u>	

The funds for the construction of the works have been derived from the following sources, viz. :—

Investment of Sylvia Ann Howland educational bequest,	\$100,000.00	
Sylvia Ann Howland water bequest,	100,000.00	
Received from sale of bonds,	815,000.00	
Net receipts applied to construction,	702,208.23	
Appropriation for construction in 1885,	<u>23,000.00</u>	
	\$1,740,208.23	
Deduct balance Dec. 1, 1896,	<u>37,822.17</u>	
Cost of works as stated above,	<u>\$1,702,386.06</u>	



The water debt at this date is as follows, viz. :—

Water bonds, 7 per cent.,	\$100,000.00	
“ 6 “	160,000.00	
“ 5 “	100,000.00	
“ 4 “	140,000.00	
“ 4 “ further water supply,	1,000,000.00	
Sylvia Ann Howland bequest 6 per cent.,	100,000.00	
	<hr/>	
	\$1,600,000.00	
Less sinking funds,	34,292.84	
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Net water debt Dec. 1st, 1896,	\$1,565,707.16	
Outlay for management and repairs,	\$76,288.85	
Outlay for extensions,	40,877.46	
	<hr/>	
	\$117,166.31	
Deductions :		
Receipts for services,	\$3,770.79	
Receipts for meters sold,	1,290.34	
Receipts for mains,	3,054.78	
Receipts for fines and other sources,	912.07	9,027.98
	<hr/>	
Net expenditures,	\$108,138.33	
Amount appropriated by the City Council in 1896		
for interest on water loan,	\$34,883.33	
Net expenditures by the Water Board,	108,138.33	
	<hr/>	
Actual amount expended in 1896,	\$143,021.66	
Water receipts in 1896,	\$106,157.07	
Water receipts in 1895,	98,150.05	
	<hr/>	
Increase in 1896,	\$8,007.02	

Summary of receipts and expenditures for “Further Water Supply” to December 4th, 1896.

#### RECEIPTS.

Bonds sold Dec. 15, 1894,	\$200,000.00
Bonds sold April 24, 1896,	50,000.00
Bonds sold May 2, 1896,	200,000.00
Bonds sold July 1, 1896,	150,000.00
Bonds sold Dec. 18, 1896,	400,000.00
Premium on bonds, Dec. 15, 1894,	18,632.00
Premium on bonds, April 24, 1896,	4,775.00

Premium on bonds, May 2 and July 1, 1896,	30,866.50
Premium on bonds, Dec. 18, 1896,	35,428.00
From water rates to pay sinking funds,	20,000.00
From general appropriations to pay interest,	20,017.33
Sale of land,	1,000.00
Sale of wood,	475.00
Edgar A. Barrows land,	30.00
Charles K. Fletcher land,	25.00
Richard C. Smith land,	12.00
Board of Public Works, crusher stone,	162.42
Board of Public Works, crusher stone,	113.45
C. K. Fletcher, rent Fletcher farm,	25.00
Almira G. Clark, tax Middleboro,	8.20
W. S. Eaton, Jr., tax Middleboro,	28.70
James E. Ashley, force main line,	41.50
H. A. Wyman, tax Rochester,	9.89
	<hr/>
	\$1,131,649.99

## EXPENDITURES.

Cost of issuing water bonds,	\$753.25
Salaries,	4,075.02
Traveling and other expenses,	453.48
Telephone and telegraph messages,	84.21
Legal expenses,	233.01
Printing and stationery,	36.96
Water gaugings at Quittacas ponds,	2,476.18
Maintenance of rain guages,	134.50
Survey and map of Quittacas ponds,	1,840.35
Dam at outlet of Great Quittacas pond,	131.50

## Lands bordering upon Quittacas ponds :

Surveying and placing bounds,	\$4,328.96	
Examination of titles and other legal expenses,	3,457.25	
Cost of land and options,	61,145.53	
Surveying water shed Lakeville ponds,	1,225.60	70,157.34

## Pipe connecting Great and Little Quittacas ponds :

Engineering,	1,186.70
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Intake pipe from Little Quittacas pond  
to pumping station :

Freight, unloading and carting,	\$6.73	
Pipe and special castings,	359.47	366.20

## Pumping station :

Engineering,	\$3,151.25	
Designing and inspecting engines,	9,000.00	
Contract, foundation of pump well and intake,	300.47	12,451.72

## Force main :

Engineering,	\$11,935.47	
Examination of titles and other legal expenses,	823.15	
Cost of land,	3,861.41	
Changing Dry Swamp ditch,	317.54	
Contract, cost of pipe and laying,	185,947.94	
Inspection on line,	2,596.83	
Cost of gates,	6,249.52	
Clearing wood,	558.42	
Inspection at foundry,	2,669.96	
Cast iron pipe,	4,276.92	
Fencing,	127.50	
Freight and carting,	237.55	
All other supplies,	8.00	219,610.21

## Distributing reservoir at High Hill :

Engineering, including surveying and placing bounds,	\$9,165.99	
Examination of titles and other legal expenses,	141.87	
Cost of land,	8,828.85	
Moving buildings and repairs,	513.23	
Carriage hire,	10.00	
Contract, reservoir,	138,650.72	
Cast iron piping and other castings,	2,434.11	
Masonry inspection,	3,433.00	
Cost of changing road,	932.30	
Earthwork inspection,	1,007.00	
Sluice gates,	5,446.25	
All other supplies,	28.99	
Work after completion of contract,	360.19	170,952.50

## Distributing main from High Hill reservoir to city :

Engineering, including surveying and placing bounds,	\$4,812.99	
Examination of titles, appraisal of land and other legal expenses,	40.00	
Cost of land,	440.64	
Cost of pipe and special castings,	108,710.54	
Wharfage and handling pipe,	1,868.04	

Gasket,	184.44	
Inspecting pipe,	1,541.34	
Lead,	961.06	
Gates and boxes,	6,352.77	
Toolhouse, blacksmith shop and tools,	121.21	
Labor,	6,362.73	
All other supplies,	47.51	
Carting,	4,256.80	
Freight and express,	5.22	
Lumber,	182.69	
Inspection,	419.96	
Contract, Nash road to reservoir,	22,867.90	
Lowering pond,	100.00	
Lowering sewers, etc.,	217.99	159,493.83

Railroad from Braley's to Little Quittacas :

Engineering,	\$4,828.20	
Hearing at Freetown and legal expenses,	178.29	
Contract,	61,594.40	
Inspection,	826.50	
Siding at Braley's,	1,473.73	
Cast iron pipe,	403.14	
Signs,	142.28	
Gravel, etc.,	26.70	
Wooden culverts,	272.90	69,746.14

Telephone line :

Labor,	\$15.50	
Poles,	113.75	129.25

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\$714,312.35

Sinking funds,	20,000.00
Interest on bonds,	20,017.33

Total expenditures,	\$754,329.68
Balance to the credit of the account Dec. 1, 1896,	377,320.31

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\$1,131,649.99

Respectfully submitted,

JAMES H. HATHAWAY,  
Water Registrar.

# Report of the Superintendent.

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NEW BEDFORD WATER WORKS,  
SUPERINTENDENT'S OFFICE,  
December 1, 1896.

*To the New Bedford Water Board.*

Gentlemen:—The twenty-seventh annual report of the Superintendent for the year ending December 1st, 1896, is herewith presented.

The past year has been an unusually busy season for the employes of this department. The rapid growth of this community as evinced by the briskness with which new buildings are being erected all quickly manifests itself in our daily work, for we are the first department to respond to this new growth. A good supply of water is as necessary as the house into which it flows, so the projectors of new schemes recognize the importance of securing the water supply previous to consummating other plans. Judging from the unusually large number of calls of the past year building has progressed at a much more rapid rate than has hitherto been experienced. All this work has been well cared for by us, and in addition a large amount has been accomplished in the matter of the "Further Supply," as will be stated later.

And first let me say a word regarding the quantity and quality of the water. The supply has been abundant and that too without any notable draft upon Little Quittacas Pond which, compared to the last few years, is a very unusual circumstance. The rainfall of the past summer and



fall occurred at intervals best suited to keep the storing reservoir well filled. It was unusually heavy in June and September, and in both months the storing reservoir was quickly filled to overflowing. Its water surface however has varied but a few inches from high water mark since my last report.

The connection between Little Quittacas pond and the storing reservoir was opened on July 30th, at which date the water level of the former was 13 inches below high water. It was closed September 10th with the water 30 inches below high water. Thus a much smaller amount was taken from Little Quittacas pond than has been done for several consecutive years.

The swamps upon the water shed adjacent to the storing reservoir have delivered unusually large volumes of the dark brown water into that basin, which was not neutralized by the white water received from Little Quittacas pond to any great extent. Consequently a much darker shade than usual has prevailed. The swampy taste and odor so frequent a visitor ten years ago has been present during the past two months, although not as intense as formerly. Previous to 1886 this was a theme of much discussion and study. During the year 1885 Prof. William Ripley Nichols made it the subject of an extensive report, which appears in the printed document of that year. The connection with Little Quittacas pond was made in 1886, since which time there has been very little complaint. It is hoped that a year or so hence, when the white sparkling water direct from the Quittacas ponds shall flow into our homes, that the unwelcome visits from this source will be forever a matter of past history.

Mr. X. H. Goodnough, Chief Engineer of the State Board of Health, furnishes a copy of results obtained by the examination of samples sent for that purpose.

# WATER ANALYSIS. STATE BOARD OF HEALTH.

## PARTS IN 100,000.

Number	DATE OF		APPEARANCE.			ODOR		Residue on Evaporat'n	AMMONIA.				NITRO- GEN AS		Hardness	Oxygen Consumed	Iron	
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot		Free	Total	In solution	In suspension	Nitrates	Nitrites				
15,966	Jan 28	18 96 Jan. 29	Very slight.	Very slight.	1.30	Distinctly mouldy.	Distinctly vegetable and mouldy.	6.65	3.40	3.25	.0036	.0254	.0258	.0026	.48	.0060	—	1.8 1.4391
16,131	Feb. 24	Feb. 25	Very slight.	Very slight.	1.20	Distinctly vegetable and mouldy.	Distinctly vegetable & astringent.	5.	2.15	2.85	.0012	.0220	.0204	.0016	.47	.0060	.0001	1.3 1.1049
16,303	Mar. 23	Mar. 24	Slight.	Slight.	.93	Distinctly vegetable and mouldy.	Distinctly vegetable and mouldy.	4.35	1.80	2.55	.0006	.0148	.0128	.0020	.48	.0070	—	1.3 .8861
16,548	May 6	May 7	Very slight.	Considerable rusty.	1.	Distinctly vegetable.	Distinctly vegetable.	4.35	2.45	1 90	.0014	.0200	.0172	.0028	.58	—	—	1.1 .8854
16,677	May 25	May 27	Slight.	Slight.	1.10	Faintly vegetable.	Distinctly vegetable.	4.35	1.85	2.50	—	.0242	.0200	.0042	.53	.0300	—	1.1 .9360
16,803	June 23	June 24	Distinct.	Slight.	1.20	Faintly vegetable.	Distinctly vegetable.	4.75	2.40	2.35	.0006	.0282	.0272	.0010	.50	.0070	.0001	.9 1.1778
17,077	July 28	July 29	Slight.	Considerable brown.	1.70	Distinctly vegetable.	Decidedly vegetable.	5.75	2.60	3.15	.0016	.0316	.0284	.0032	.52	.0070	—	1. 1.0792
17,317	Aug. 27	Aug. 28	Very slight.	Slight.	.95	Distinctly vegetable.	Distinctly vegetable.	4.50	2. 2.50		—	.0246	.0218	.0028	.51	.0020	—	.9 1.0780
17,516	Sept. 21	Sept. 22	Slight.	Slight.	.65	Faintly vegetable.	Faintly vegetable.	4.40	2.25	2.15	.0004	.0286	.0260	.0026	.51	.0080	.0001	.8 .6201
17,688	Oct. 21	Oct. 22	Very slight.	Slight.	1.15	Distinctly vegetable.	Distinctly vegetable.	5.50	2.85	2.55	.0006	.0242	.0228	.0014	.60	.0070	.0003	1.6 1.6590
17,932	Nov. 23	Nov. 24	None.	Very slight.	1.60	Distinctly vegetable and mouldy.	Distinctly vegetable and mouldy.	6.80	3.30	3.50	.0030	.0298	.0272	.0026	.72	.0080	.0001	1.4 1.6341

The samples were collected from the conduit at the entrance to the receiving reservoir.

Scale of colors: 0=Colorless.  
1=Yellowish brown tint.  
2=Deep yellowish brown tint.

# WATER ANALYSIS. STATE BOARD OF HEALTH.

PARTS IN 100,000.

Number	DATE OF		APPEARANCE			ODOR		Residue on Evaporat'n			AMMONIA				CHLORINE		NITRO-GEN AS		Hardness	Oxygen Consumed	Iron
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on ignition	Fixed	Free	Total	Albuminoid		In solution	In suspension	Nitrates	Nitrites			
16,508	18 <sup>96</sup> Apr. 29	Apr. 30	Slight.	Slight.	.20	None.	None.	3.10	1.05	2.05	.0010	.0176	.0154	.0022	.47	.0070	—	—	.6	.3311	—
17,316	Aug. 27	Aug. 28	Very slight.	Very slight.	.22	None.	None.	2.95	1.35	1.60	—	.0212	.0174	.0038	.52	.0030	—	—	.5	.3403	—

These samples were collected from Little Quit-tacas Pond.

Scale of colors: 0=Colorless.  
1=Yellowish brown tint.  
2=Deep yellowish brown tint.

# WATER ANALYSIS. STATE BOARD OF HEALTH. PARTS IN 100,000.

Number	DATE OF		APPEARANCE			ODOR		Residue on Evaporat'n			AMMONIA				CHLORINE		NITRO-GEN AS		Hardness	Oxygen Consumed	Iron
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In solution	In suspension	Nitrates	Nitrites					
16,507	18 96	Apr. 29	Slight.	Slight.	.57	Distinctly vegetable.	Faintly vegetable.	3.60	1.55	2.05	.0006	.0192	.0178	.0014	.46	.0070	—	—	.7	.6583	—
17,315		Aug. 27	Very slight.	Very slight.	.40	Distinctly vegetable and sweetish.	Distinctly vegetable and sweetish.	3.50	1.60	1.90	—	.0190	.0160	.0030	.53	—	—	—	.6	.6930	—

These samples were collected from

These samples were collected from Great Quit-tacas Pond.

Scale of colors: 0=Colorless.  
1=Yellowish brown tint.  
2=Deep yellowish brown tint.

# WATER ANALYSIS. STATE BOARD OF HEALTH. PARTS IN 100,000.

Number	DATE OF		APPEARANCE			ODOR		Residue on Evaporat'n			AMMONIA				CHLORINE		NITRO- GEN AS		Hardness	Oxygen Consumed	Iron
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on ignition	Fixed	Free	Total	Albuminoid		In suspension	Nitrates	Nitrites				
													In solution								
16,509	18 96 Apr. 29	Apr. 30	None.	Very slight.	1.10	Faintly vegetable.	Distinctly vegetable.	3.95	1.95	2.	.0012	.0266	.0194	.0012	.43	—	—	4	1.0395	—	
17,314	Aug. 27	Aug. 28	Very slight.	Very slight.	.70	Distinctly vegetable and mouldy.	Distinctly vegetable and mouldy.	3.75	2.	1.75	—	.0232	.0198	.0034	.52	—	—	.3	.9317	—	

These samples were collected from Long Pond.

Scale of colors: 0=Colorless,  
1=Yellowish brown tint.  
2=Deep yellowish brown tint.



A short distance from Little Quittacas pond, the flume supplying the storing reservoir was crossed by the railroad and force main of the new supply. For quite a distance the location was identical. At this place it became necessary to relocate the flume. This was done by the employes of this department, a new location being selected on the northerly side of the railroad embankment.

A large amount of work has been done in clearing several places along the line of the force main and at the proposed site of the pumping station.

There has been no special work required at the storing reservoir or along the line of the conduit.

The conduit location has been marked by frequent stakes from the gate house at the storing reservoir to the Belleville road. This was necessary to prevent the numerous building operations now so prevalent in that locality from encroaching upon conduit right of way.

On October 23d the receiving reservoir was emptied, and all deposits upon the bottom and slope walls were removed. This work required eleven days. No other repairs of any consequence were found to be needed. Considerable progress has been made during the past few years in raising the grade of the reservoir enclosure to that of the railroad which adjoins it upon the west.

The roof of the gate house at the southwest corner of this reservoir has been reshingled.

During the month of September, the Mt. Pleasant reservoir was completely emptied. A vegetable deposit averaging perhaps one-quarter of an inch in thickness was found upon the bottom and inside slope walls. All this was the accumulation of eight years, for during the season of 1888 this reservoir was thoroughly cleansed and repaired. The work done this season leaves it in equally good condition. The slope walls were carefully cleansed and thorough repairs were made to the masonry joints in

its upper portion where the water level fluctuates. This demoralized condition was mainly caused by the action of ice. The masonry of the gate chamber also received more or less repairs, as needed. The bottom of the reservoir was scraped and swept, and the collection thus gathered was removed. Twenty-two days elapsed from the time the distributing system was shut off from the reservoir until it was filled and again connected.

Engine No. 1 (McAlpine) has been in operation 2,769½ hours, making 2,318,710 revolutions and pumping 679,382,030 gallons of water. The longest continuous run was from January 3d, 4 P. M. to January 12th, 1 P. M.—207 hours.

No repairs of any account have been needed during the past year, and the engine is now in excellent condition.

The cost of pumping with engine No. 1 has been as follows :

Salaries, 15 weeks,	at \$122.1735	\$1,832.60
472.09824 gross tons Georges Creek		
Cumberland coal,	at 3.19	1,505.99
¼ cord white pine wood,	at 4.00	1.00
29 $\frac{1}{16}$ gallons cylinder oil,	at .41	11.92
11 $\frac{13}{16}$ gallons sperm oil,	at .55	6.50
24 $\frac{1}{16}$ gallons lubricating oil,	at .32	7.70
125 pounds waste,	at .09	11.25
5 brooms,	at .20	1.00
Proportion of maintenance of		
electric light plant,		61.04
Repairs to engine,		10.98
Repairs to boilers,		62.75
Cost of raising water into distributing reservoir per million gallons,		\$3,512.73
\$5.17.		
Cost of raising water one foot high per million gallons, 3 $\frac{83}{100}$ cents.		

Engine No. 2 (Worthington) has been in operation 1,489 hours, making 1,162,101 revolutions and pumping 171,990,948 gallons of water. This engine is now engaged in filling the new distributing reservoir at High Hill, in

order to protect the new concrete work from damage by frost action during the winter months. This engine was started to do this work at 3 P. M. on November 4th, and the water first appeared in the gate house of the High Hill reservoir at 3.42 P. M. on that day. It has operated continuously ever since, some 639 hours, and has now delivered 60,837,472 gallons. It will require about five more days pumping to completely fill this basin.

There have been no repairs needed in connection with this engine, and its condition is good.

The cost of pumping with engine No. 2 has been as follows :

Salaries, 8 weeks,	at \$122.1735	\$977.39
69.19643 gross tons Georges Creek Cumberland coal,	at 3.19	220.74
107.14284 gross tons Pocahontas coal,	at 3.55	380.36
$\frac{1}{3}$ cord white pine wood,	at 4.00	1.33
22 $\frac{5}{8}$ gallons cylinder oil,	at .41	9.49
81 $\frac{3}{8}$ gallons lubricating oil,	at .32	2.82
82 pounds waste,	at .08	6.56
Proportion of maintenance of electric lighting plant,		13.38
Repairs to boilers,		62.75
		\$1,674.82

Cost of raising water into distributing reservoir per million gallons, \$9.74.

Cost of raising water one foot high per million gallons, 6 $\frac{43}{100}$  cents.

Engine No. 3 (Worthington High Duty) has been in operation 5,421 $\frac{1}{2}$  hours, making 5,792,951 revolutions and pumping 1,123,832,494 gallons of water. The longest continuous run was from January 13th, 2 P. M. to March 13th, 9 A. M.—1,435 hours.

The repairs made during the year have been slight. This engine is now approaching a point where a thorough overhauling will soon be required. It is almost eleven years since it was first started, and up to this date it has

been in operation 39,545 hours. New sleeves for the water plungers and new pistons for the low pressure steam cylinders are needed, and all the steam valves require attention.

The cost of pumping with engine No. 3 has been as follows :

Salaries, 29 weeks,	at \$122.1735	\$3,543.03
446.62949 gross tons Georges Creek		
Cumberland coal,	at 3.19	1,424.75
192.52228 gross tons Pocahontas		
coal,	at 3.55	683.45
$\frac{1}{3}$ cord white pine wood,	at 4.00	1.33
150 $\frac{3}{4}$ gallons cylinder oil,	at .41	61.80
57 $\frac{1}{2}$ gallons lubricating oil,	at .32	18.40
232 pounds waste,	at .08	18.56
7 brooms,	at .20	1.40
5 water glasses,	at .20	1.00
Proportion of maintenance of		
electric lighting plant,		105.45
Repairs to engine,		166.94
Repairs to boilers,		91.71
		\$6,117.82

Cost of raising water into distributing reservoir per million gallons, \$5.44.

Cost of raising water one foot high per million gallons,  $4\frac{2}{10}$  cents.

The total cost of pumping for the past year may be summarized as follows, viz. :

1st. Figured on pumping station expenses, viz. :

Cost of fuel used,	\$4,218.95
Salaries, engineers, firemen, watchmen,	6,353.02
Cost of oil, waste, packing and other supplies,	338.27
Repairs to machinery and boilers,	395.13
Raising water into distributing reservoir per million gallons,	\$5.72
Raising water one foot high per million gallons,	$4\frac{2}{10}$ cents.

2d. Figured on total maintenance, \$76,472.18

Raising water into reservoir per million gallons,	\$38.72
Raising water one foot high per million gallons,	$29\frac{4}{10}$ cents.

All the boilers and other parts of the pumping plant are in good condition.

The distributing mains have been increased 48,895 feet, and there has been 8,358 feet of pipe previously laid removed. The total number of miles of pipe now in use is  $83\frac{9638}{10000}$  miles.

That portion of the distributing main leading from the High Hill reservoir and lying in Mt. Pleasant street from the Nash road south to Durfee street was the most important single piece of work done by this department during the season.

From the Nash road northerly to the reservoir the work was done under contract with J. J. Newman.

From the Nash road to Grant street, 1,285 feet of 36-inch pipe was placed. That from Grant street southerly to Durfee street consists of 4,730 feet of 30-inch pipe. That portion of this pipe lying between the reservoir and Durfee street occupies the same position on the west side of Mt. Pleasant street as did the wrought iron cement lined pipe which has just been removed.

It is intended later to place a 24-inch pipe leading from the 36-inch pipe at Grant street easterly by the Mt. Pleasant mill through Purchase street to a point near the present pumping station, where it will supply two 16-inch mains, i. e. the State street main and a proposed new main in Purchase street. It will also supply a third 16-inch main which will lead from it near the Mt. Pleasant mill, easterly through Dean street to Acushnet avenue.

While the 36-inch main is intended to supply two pipes of smaller diameter leading from it, at Grant street at present it supplies only one, i. e. the 30-inch which has just been laid in Mt. Pleasant street from this point south to Durfee street.

It is well to note that two portions of this work were unusually difficult in placing, i. e. the connection at the



Mt. Pleasant reservoir and those at the corner of Durfee street.

At the Mt. Pleasant reservoir, all the parts formerly forming the connection of the reservoir and stand-pipe with the distributing system were completely removed.

An entirely new plan has been substituted. Some of the features to be attained by this new system may be thus stated.

The water level of the Mt. Pleasant reservoir is 66 feet below that at High Hill. When the supply is being received from the latter, a check-valve will prevent its flow into the former. This appliance will quickly respond to a drop in the pressure such as might be created by the sudden failure of the pipe leading from High Hill from any cause. It also provides for a temporary supply to the city under the pressure due to the Mt. Pleasant reservoir level in case it becomes necessary to shut off the High Hill supply for repairs.

It will also be possible to maintain a supply to a portion of the city from the Purchase street station through the Mt. Pleasant reservoir at the same time that the larger portion is receiving its supply from High Hill.

Another combination admits of the pumping from the Purchase street station direct to the High Hill reservoir, as is being done at this date.

Thus the plan of piping which has been placed here allows many combinations which will be of value in the future.

As all connections with the stand-pipe have now been removed, that structure remains a useless factor in the maintenance of the system.

At Durfee street the 30-inch main ends, and here the connections supply the 24-inch main leading to the east, the 16-inch main leading west, and provision is made for a proposed 20-inch main leading south in Cottage street.

While the work of placing the connections at both Durfee street and the reservoir was in progress, it was necessary to cut off the flow from the reservoir for several days in each case. At such times the supply was maintained by direct pumping into the mains.

The following described work has been done in substituting cast iron pipe for wrought iron cement lined pipe :

Kempton street, from 6 feet east of west line of County street to 12 feet west of east line of Cottage street, 788 feet, 10-inch replacing 6-inch cement lined.

Maxfield street, from 8 feet east of west line of County street to 16 feet west of east line of Cottage street, 769 feet, 10-inch replacing 8-inch cement lined.

Ashland street, from 10.7 feet north of south line of Linden to Sumner street, 979 feet, 16-inch replacing 12-inch cement lined.

Robeson street, from Ashland to County street, 370 feet, 16-inch replacing 12-inch cement lined.

County street, from Robeson to 9 feet south of Campbell street, 1,671 feet, 16-inch replacing 12-inch cement lined.

To the above list of removal of wrought iron cement lined pipe should be added the 12-inch pipe in Durfee and Ashland streets from Mt. Pleasant to Linden street. It was not necessary to replace it with a new main, and its value was not worth the cost of excavation, consequently it has been abandoned and it has been erased from the list of pipe.

Much trouble has been experienced during late years from the frequent breaks at the 2-inch lead pipe located in the channel south of the draw of the Fairhaven bridge and furnishing the supply to Fish and Popes islands. This pipe was placed in 1879. It froze solid during the winter of 1881, since which time the breaks have been more or less numerous. It has been wrenched and twisted by the anchors of vessels and electric cables, and has had a pretty good shaking up. It has been repaired after each break as best could be done, with the hope that it could be maintained until the construction of the new pro-

posed bridge could be completed. With this construction it is proposed to place a supply pipe of much more permanent character. But after the numerous bad breaks of the past year, it was evident that a new pipe must be procured at once. Consequently it was placed on September 18th, and extends from the west end of the draw southerly and easterly to the end of Fish Island wharf, upon which it was laid up and connected with the pipe formerly in use upon this island. The new location was selected that it might be as far as possible out of the way during the construction of the new bridge.

There have been fourteen leaks upon the mains the past year, as herewith shown :

DATE.	SIZE.	LOCATION.	CAUSE.	COST.
Dec. 8.	20 in.	State st., north of Hazard.	Pipe broken.	\$59.58
Jan. 7.	6 in.	Front st., south of School.	Joint started.	2.78
Feb. 8.	8 in.	Fourth st., south of Bedford.	Joint started.	3.47
Feb. 13.	6 in.	Front st., north of School.	Joint started.	3.36
Mch. 10.	6 in.	Short st., at end of pipe.	Joint started.	3.00
Apr. 17.	10 in.	Ced. Grove st., w. of Purchase	Joint started.	2.92
May 20.	4 in.	Thomas st., n. of Maxfield.	Pipe broken.	6.65
Aug. 26.	2 in.	Lead pipe in river.	Pipe split.	15.83
Sept. 4.	2 in.	Lead pipe in river.	Pipe split.	16.36
Sept. 11.	2 in.	Lead pipe in river.	Pipe split.	13.19
Sept. 12.	2 in.	Lead pipe in river.	Pipe split.	11.52
Oct. 17.	6 in.	Mill st., at Newton.	Plug blew out.	2.25
Oct. 19.	6 in.	Hillman st., e. of Florence.	Iron bar driven through pipe.	8.24
Nov. 23.	4 in.	Cottage st., at Grove.	Pick hole in cement pipe.	1.95

There now remains 6,482 feet of wrought iron cement lined pipe in our distributing system: County street, Campbell to Union street, 3,348 feet; Cottage street, Maxfield to Kempton street, 1,028 feet; Cottage street, Court to Grove street, 2,108 feet.

As the Cottage street pipe is small, it is undoubtedly in better condition to meet the increased pressure than the

larger pipe in County street. The pipe in the last named street should certainly be replaced with cast iron pipe previous to the introduction of the new supply, and I would recommend this being done the coming season.

I have previously stated that later it is proposed to lead a 24-inch main from the 36-inch pipe on Mt. Pleasant street, at Grant street, to a point in Purchase street near the Mt. Pleasant mill, and thence southerly in Purchase street to the present pumping station.

I would recommend that that portion of the above described plan which is located in Purchase street be placed the coming season. By doing this work, a section of the 24-inch pipe previously referred to will be placed, while a line of 16-inch pipe of rather light weight for the new pressure at Purchase street will be secured, but which will be sufficient for County street. It will provide enough pipe to lay in County street from Union street to a point near Hillman.

I would also recommend that a 16-inch main be placed in Deane street, from Purchase street easterly to Acushnet avenue, for the better supply of the mill district located easterly from that point.

Four hundred thirty-five service pipes have been laid the past year, and fifteen of those previously laid have been removed. The total number now in use is 8,447.

Two hundred sixty-four service taps have been cleaned, as follows: Rust, 117; eels, 137; trouble inside, 10.

Seventy-one new hydrants have been set, and twenty-five of those previously set have been removed. The total number now in use is 670.

Eighty-seven new stop gates have been set, and twenty-two of those previously set have been removed. The total number now in use is 928.

Eleven waste gates have been set. The total number now in use is 91.

Eight private stop gates have been set, and three of those previously set have been removed. The total number now in use is 185.

Four small sized stop gates (less than 4-inch) have been set, and two of those previously set have been removed. The total number now in use is 68.

Seven hundred twenty feet of small sized distribution pipe (less than 4-inch) have been laid, and four hundred eighty-one feet of that previously laid have been removed. The total length now in use is 6,420 feet.

Fourteen air taps have been placed. The total number now in use is 34.

The total number of meters is 366.

The total number of motors is 81.

The following tables present interesting statistics in regard to the consumption of water :

#### MONTHLY CONSUMPTION AND RECORD OF PRESSURE AT THE CITY HALL.

1896. MONTH.	Monthly Consumption. Gallons.	Daily Average. Gallons.	Pounds Pressure. 10 A. M.			Pounds Pressure. Midnight.		
			Max.	Min.	Av.	Max.	Min.	Av.
January.	168,467,128	5,434,423	34	29	32	36	31	34
February.	158,262,223	5,457,318	34	26	31	36	32	34
March.	165,135,720	5,326,959	34	28	30	36	32	34
April.	144,765,670	4,825,523	33	29	31	35	31	34
May.	158,222,976	5,103,967	36	27	31	*44	32	35
June.	152,409,038	5,080,301	33	27	31	35	32	34
July.	168,163,899	5,424,642	36	30	32	*43	31	36
August.	176,974,764	5,708,863	34	29	32	35	30	34
September.	161,852,832	5,395,094	*42	30	34	*43	31	39
October.	153,807,004	4,961,516	35	30	33	*43	29	35
November.	148,158,853	4,938,628	34	29	32	35	31	34
December.	168,580,206	5,438,071	34	31	32	36	32	34
Averages.	160,400,026	5,259,017	42	26	32	44	29	35

\*Pumping direct into the mains.



COMPARISON OF THE CONSUMPTION OF THE YEAR 1896  
WITH THE RECORD OF THE 14 PREVIOUS YEARS.

Year.	Estimated Population.	Estimated Number of Consumers.	Total Number of Gallons Consumed.	Average Daily Consumption.	Number of Taps.	Gallons per Day to Each Inhabitant.	Gallons per Day to Each Consumer.	Gallons per Day to Each Tap.
1882	28,500	20,424	859,119,622	2,326,352	4,203	82	114	553
1883	30,000	22,249	849,059,700	2,326,191	4,465	78	105	521
1884	33,000	23,749	867,815,595	2,371,080	4,691	72	100	506
1885	33,700	25,375	1,049,801,050	2,876,167	4,965	85	113	579
1886	34,500	28,480	1,086,534,615	2,976,807	5,225	86	104	569
1887	36,000	30,080	1,112,302,789	3,047,404	5,495	85	101	555
1888	37,500	31,826	1,229,841,794	3,360,223	5,785	89	109	581
1889	40,000	34,000	1,310,488,214	3,590,379	6,104	90	106	588
1890	41,500	35,740	1,485,143,213	4,066,200	6,394	98	114	636
1891	45,000	38,500	1,513,161,482	4,145,648	6,742	92	108	615
1892	50,000	41,776	1,607,955,166	4,393,320	7,134	88	105	616
1893	55,000	44,158	1,824,275,536	4,998,015	7,531	99	113	664
1894	56,000	44,661	1,747,167,532	4,786,760	7,767	85	107	616
1895	56,300	46,154	1,719,830,979	4,711,866	8,027	84	102	587
1896	59,000	48,570	1,924,800,313	5,259,017	8,447	89	108	623

During the past year the daily consumption has exceeded 7,000,000 gallons on four days, and has been in excess of 6,500,000 gallons 14 days.

The maximum daily consumption was on Monday, January 6th, 7,843,925 gallons; while the minimum was on Sunday, May 31st, 3,347,256 gallons.

The daily consumption is abnormally large, but will probably remain at about the present rate until some plan looking in the direction of the general introduction of meters and the payment of meter rates shall have been consummated. When the time comes that a taker of wasteful tendencies shall be compelled to pay for quantity used, then he will most vigorously move in the matter of checking all unnecessary waste.

Mr. Thomas R. Rodman, as usual, kindly supplies a copy of his rainfall observations, which, with the usual statistical tables, are herewith presented.

Respectfully submitted,

R. C. P. COGGESHALL,  
Superintendent.

TABLE A.

SHOWING RAINFALL AT STORING RESERVOIR FOR 1896.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1												
2		.68		.62				1.05				
3			1.89						.67			
4					.80		2.08					.17
5								.83	.76	1.17		
6		1.80					.30			.22	1.65	
7			.31								.12	
8	.28					2.61						.74
9		.44				1.06			2.98			
10											.19	
11	.90											
12			.72							.52		
13		.84					.82		.41		.24	
14						1.41		1.00	.54			
15							.35					1.78
16			1.43									
17									.47			
18			.13		.41				1.49			
19	.24				.53		.12					
20									.16		.45	
21				.45								
22	.93		.25							1.46		.98
23							.43					
24								.42				
25					.41							
26						.75					.68	
27					.86		.28					
28									.57		.34	
29			1.60									
30					.54							
31												
Total	2.35	3.76	6.33	1.07	3.55	5.83	4.38	3.30	8.05	3.37	3.67	3.67

Total for the year, 49.33 inches.

TABLE A.

SHOWING RAINFALL AT PUMPING STATION FOR 1896.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1		.70										
2				.67				1.60				
3	.06		1.55		.01				.65	.02		.05
4		.16							.13			
5		.09			.17		.93					.15
6								.98	.12	.55	1.19	
7		1.27	.34	.04			.29		.31	.01		
8	.16											
9		.38				1.68					.05	1.13
10	1.09					.96			3.64			
11		.04					.17				.05	
12	.02		.62						.02	.02	.18	
13							.01				.08	
14		.95					.11	.34	.21	.57	.12	
15						1.31			.15	.40		
16		.02	.80				.33					
17			.45	.21		.01		.08				1.40
18		.02						.03	.14			
19		.23		.02	.50			.03	1.07			.03
20	.11		.12				.02		.71			
21							.15			.06		
22				.29	.72			.08	.22		.30	
23							.17	.09				.87
24			.22					.03		1.68		
25	.75						.26					
26					.27						.03	
27								.23				
28						.86						
29		.47			.99						.58	
30			1.62				.14		.52		.35	
31					1.16			.09		.02		
Total	2.19	4.33	5.72	1.23	3.82	4.82	2.58	3.58	7.76	3.46	2.93	3.63

Total fall for the year, 46.05 inches.

TABLE A.

SHOWING RAINFALL AT NEW BEDFORD, AS REGISTERED  
BY T. R. RODMAN, FOR 1896.

Day.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1			.52									
2		.74		.64				1.68				
3	.05		.70		.02							.02
4		.21							.75	.16		
5		.10			.15		1.00		.36	.36		.11
6								.84	.10	.18	.98	
7		1.36	.32	.02			.17		.15			
8	.20					1.67					.01	
9		.40				.06	.02		.07		.08	.95
10	.80					.98			3.60			
11							.17				.03	
12	.02		1.24								.16	
13							.17		.21	.52	.08	
14		.92				.65		.42	.01		.08	
15						.68		.27		.38		
16		.03					.38		.62			1.58
17			1.45	.25				.11				
18		.15						.05	.34			
19		.10			.38			.01	.92			
20	.20		.08		.02				1.14			
21	.02				.60		.17			.10		
22				.33	.21			.04	.47		.24	.01
23							.21	.13				.94
24			.26					.03		1.70		
25	.74						.24					
26					.27							
27								.14				
28						.94						
29		.42			1.16				.22		.54	
30			1.40				.37		.27		.40	
31					1.10			.07				
Total	2.03	4.43	5.97	1 24	3.91	4.98	2.90	3.79	8.87	3.40	2.60	3.61

Total fall for the year, 47.73 inches.



TABLE A.

SUMMARY OF MONTHLY METEOROLOGICAL OBSERVATIONS AT THE PUMPING STATION FOR THE YEAR 1896.

MONTHS.	BAROMETER REDUCED TO SEA LEVEL AND TO 32°.							THERMOMETER.							RELATIVE HUMIDITY.			WIND.										WEATHER.					RAIN AND SNOW.		MONTHS.			
	7 A. M.	2 P. M.	9 P. M.	Mean.	Maximum.	Minimum.	Range.	7 A. M.	2 P. M.	9 P. M.	Mean.	Maximum.	Minimum.	Range.	7 A. M.	2 P. M.	9 P. M.	Mean.	PREVAILING DIRECTION.—NUMBER OF DAYS IT WAS										ATMOSPHERE.—No. OF DAYS IT WAS					Mean amount of cloud.		Amount of rain, in inches.	Depth of snow in inches.	
																			N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Variable.	Mean velocity in miles per hour.	Clear.	Fair.	Variable.	Rain or snow.	All others.					
January,	30.17	30.12	30.14	30.15	30.52	28.03	1.89	20.3	30.1	24.4	24.9	46	—10	56	82	63	1	79.6	70.6	9	4	2			1	3	7	2	3	10.8	11	5	5	10	4.7	2.19	12¾	January.
February,	29.86	29.81	29.82	29.83	30.44	28.82	1.62	24.8	34.1	29.8	29.6	52	—9	61	81	69.5	79	76	76	2	4	2	2	1	3	10	2	3	13.7	8	5	2	14	4.8	4.33	4¼	February.	
March,	29.89	29.87	29.90	29.89	30.50	28.87	1.63	28.2	36.6	30.5	31.8	62	7	55	79.2	69.4	79.2	70	70	7	2			2	4	8	2	6	14.6	12	2	4	13	5.8	5.72	19	March.	
April,	30.12	30.08	30.10	30.10	30.48	29.46	1.02	42.4	45.8	43.2	43.8	83	24	50	77.6	50.2	78	71.6	71.6	2	2	2	2	8	2	1	11	10.5	10	9	3	8	3.8	1.23	½	April.		
May,	30.04	30.01	30.02	30.02	30.41	29.61	.80	56.2	65.3	55.0	58.3	96	31	65	79.8	62.9	81.1	74.6	74.6	1	2		2	2	12	3	9	9.7	11	11	9		3.8	3.82		May.		
June,	29.08	29.96	29.97	29.97	30.37	28.86	1.51	62.7	69.6	61.4	64.5	86	44	42	83.5	71.4	85.4	80.1	80.1	2	1	1	3		13	3	2	5	8.5	12	6	4	8	4.3	4.82		June.	
July,	30.03	30.02	30.02	30.02	30.41	29.64	.77	68.3	75.1	67.7	70.4	89	50	89	89.0	75.8	89.2	84.7	84.7				1		17	2	2	9	8.6	6	6	4	16	5.2	2.58		July.	
August,	30.03	30.00	30.02	30.02	30.30	29.68	.62	66.2	76.6	66.8	69.9	91	45	46	89.0	67.3	88.6	81.6	81.6	1	3			3	9	1	1	13	7.1	14	3	3	11	3.6	3.58		August.	
September,	30.01	30.01	30.02	30.03	30.40	29.46	.94	58.6	65.6	59.7	61.6	83	38	45	89.5	71.8	88.3	83.2	83.2	2	4		2	2	9	3	1	7	10.4	2	5	7	16	5.3	7.76		September.	
October,	30.01	29.98	30.01	30.00	30.55	29.46	1.09	45.7	55.4	48.4	49.8	76	27	49	88.4	70.6	86.3	81.8	81.8	5	7	1	3	3	4	9	1	1	11.6	6	7	2	16	5.4	3.46		October.	
November,	30.18	30.14	30.18	30.17	30.79	29.62	1.17	42.8	51.5	45.3	46.5	68	19	49	87.2	69.8	80.2	81.1	81.1	2			2	2	10	2	7	5	10.8	4	6	3	17	5.4	3.20	3	November.	
December,	30.10	30.08	30.12	30.10	30.88	29.31	1.57	24.9	35.3	28.2	29.5	55	—7	62	84	65	80	76.4	76.4	2	3				8	4	5	9	13.0	8	6	4	12	3.8	3.63	19¾	December.	
Means for the year,	30.04	30.01	30.03	30.02				45.1	53.5	46.7	48.4				84.2	68.4	83.4	78.7																				Means for the year.
Totals for the year,																				35	32	8	14	16	100	54	26	81		104	71	41	149	Cldy.	46.32	59¼	Totals for the year.	
Extremes,					30.88	28.63	2.25							106																								Extremes.

TABLE 1.

1911 and 1912 Summary of Monthly...

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TABLE B.

STATEMENT OF WORK DONE BY ENGINE NO. 1 [MCALPINE] FOR YEAR ENDING DECEMBER 1, 1896.

Diameter of steam cylinder, 38 in.

Length of stroke, 8 feet.

Average working steam pressure, 30 lbs.

MONTHS.	FUEL.										COAL.										FUEL.										COAL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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	NUMBER OF DAYS OR PARTS OF MONTH.	H.	M.	STROKES.	AVERAGE NUMBER OF STROKES PER MINUTE.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.

TABLE B.  
STATEMENT OF WORK DONE BY ENGINE No. 2 [WORTHINGTON] FOR THE YEAR ENDING  
DECEMBER 1, 1896.

MONTHS.		Total pumping time per month.		Total number of strokes per month.	Average number of strokes per minute.	FUEL.										No. of gallons pumped per pound of coal, for total coal.		No. of gallons raised 100 feet per pound of coal, for total coal.	Average dynamic head against pump in feet, no allowance for friction in suction.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on total fuel used for all purposes, no deductions.	Average duty in pounds raised one foot high per 100 pounds of coal, calculated on amount of combustible coal used while pumping.		
						COAL.																	
						PUMPING.																	
						Total.																	
LBS. of Wood.		LBS.		Raising steam and banking.		Ashes and clinkers.		Pumping.		Total.		Total fuel.		GALS.		GALS.		FEET.		LBS.		LBS.	
LBS.		LBS.		LBS.		LBS.		LBS.		LBS.		LBS.		GALS.		GALS.		FEET.		LBS.		LBS.	
Diameter of H. P. steam cylinder, 22 in.	Length of stroke, 36½ in.	Average working steam pressure, 30 lbs.																					
Diameter of L. P. steam cylinder, 36 in.																							
December, 1895	3	51		54,467	17.8	110	1,000	2,197	22,653	25,850	25,917	17,137	8,061,116	471	593	645	136.61	49,403,262	54,107,733				
January, 1896	6	65		62,813	16.1		1,000	323	3,477	3,800	3,800	19,050	9,296,324	488	623	657	127.75	51,992,803	56,821,920				
February, " "	2	20		13,162	15.9		1,000	463	4,987	5,450	5,450	19,050	2,835,976	520	637		126.37	54,842,354	59,933,994				
March, " "																							
April, " "	6	38		82,470	13.9	200	1,000	2,197	22,653	25,850	25,917	17,137	8,061,116	471	593	645	136.61	49,403,262	54,107,733				
May, " "	1	12	30	11,267	15.0		1,000	323	3,477	3,800	3,800	19,050	9,296,324	488	623	657	127.75	51,992,803	56,821,920				
June, " "	8	139		118,635	14.2	200	1,000	3,383	23,417	33,800	33,867	19,050	2,835,976	520	637		126.37	54,842,354	59,933,994				
July, " "																							
August, " "	23	349		280,831	13.4			7,659	82,441	90,100	90,100	19,050	41,569,988	461	639	639	138.69	53,357,217	58,314,240				
September, " "	2	48		44,957	15.6			1,118	12,032	13,150	13,150	19,050	41,569,988	461	639	639	138.69	53,357,217	58,314,240				
October, " "	31	706		487,499	11.5			12,647	168,053	180,700	180,700	19,050	41,569,988	461	639	639	138.69	53,357,217	58,314,240				
November, " "																							
Totals and Av.	82	1,489		1,163,101	13.0	510	2,000	30,862	362,138	395,000	395,170	17,137	171,990,948	435	659	659	151.52	54,999,360	60,016,063				

Diameter of H. P. steam cylinder, 22 in.  
Diameter of L. P. steam cylinder, 36 in.

Length of stroke, 36½ in.

Average working steam pressure, 30 lbs.

TABLE B.  
STATEMENT OF WORK DONE BY ENGINE NO. 3 [WORTHINGTON HIGH DUTY] FOR THE YEAR  
ENDING DECEMBER 1, 1896.

Diameter of H. P. steam cylinder, 18 in.  
Diameter of L. P. steam cylinder, 36 in.

Length of stroke, 26 in.

Average working steam pressure, 110 lbs.

MONTHS.	Number of days or parts of days pumping.	H. M.	Total pumping time per month.	Strokes.	Average number of strokes per minute.	Lbs. of Wood	FUEL.										Total number of gallons pumped per month, allowance being made for slip.	No. of gallons pumped per pound of coal, for total coal.	No. of gallons raised 100 feet per pound of coal, for total coal.	Average dynamic head against pump in feet, no allowance for friction in suction.	FEET.	LBS.	LBS.	AVERAGE DUTY IN POUNDS RAISED ONE FOOT HIGH PER 100 POUNDS OF COAL, CALCULATED ON AMOUNT OF COMBUSTIBLE COAL USED WHILE PUMPING.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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							Raising steam and banking.		Ashes and clinkers.		Pumping.		Total.		LBS.										LBS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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December, 1895	19	448		487,188	18.1	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															









Phillips avenue, Riverside avenue west, Plainville road, gate at Mt. Pleasant st. to branch at Shawmut av.	5,849						204
Plummer avenue, Riverside avenue west,							22
Pope street, from 227 feet east of Chestnut street east,							48
Richmond street, Maitland north.							119
Riverside avenue, Davis street to Coffin avenue,							
Robeson street, Summer to County street,							
Rotch street, Court to 139 feet south of Union street,							
Sand street, Cove road south,							
Shawmut avenue from branch at Plainville road to south line 60-foot way,	2,508						
Stapleton street, from 149 feet south of Cove street south,							67
Sycamore street, Ash street west,							372
Tallman street, Acushnet avenue west,							239
Thompson street, from 58 feet west of Hall street west,							122
Thompson street, Bonney street east,							145
Thompson street, from 15 feet east of County to Fourth st.,							228
Tiltor street, Shawmut avenue west,							98
Union street, from 160 feet east of Armour to Rotch street,							51
Union street, James street west,							75
Union street, from 344 feet west of Park street west,							99
Vine street, Durfee street north,							767
Ward street, from 61 feet south of Bay south to Hickory st.,							243
Warren street, Brock avenue west,							198
Weid street, Ashland to Mt. Pleasant street,							
Willis street, County street east,							
By-pass east side of reservoir, from 48-inch pipe to 36-inch main Flag Swamp road,							
In outlet chamber, (second pipe line,)	1,013						
In 60-foot way, from south line way at Shawmut avenue to east line Flag Swamp road,	55						
	3,700						
Totals,	21,532 4,778	102 23 3,072	17 4,142	2,154	11,789	1,286	

## MAIN PIPE REMOVED IN 1896.

STREETS.	CAST IRON.						CEMENT LINED.		
	24 inch.	16 inch.	12 inch.	8 inch.	6 inch.	4 inch.	12 inch.	8 inch.	6 inch.
Ashland street, Robeson to Durfee, Blackmer street, Front street east, Blackmer street, from 34 feet east of Front street east, Campbell street, County street west, Coffin avenue, Riverside avenue east, Commercial street, from 133 feet east of Front street west, Cottage street, Durfee south, County street, Robeson to 9 feet south from south line Campbell street, Durfee street, Ashland to Mt. Pleasant street, High street, from 5 feet west of Purchase street west, Kempton street, from 6 feet east of west line County to 12 feet west of east line Cottage street, Maxfield street, from 8 feet east of west line County to 16 feet west of east line Cottage street, Mt. Pleasant street, gate house to Durfee street, Mt. Pleasant street, connections at gate house and stand pipe, Mt. Vernon street, Mt. Pleasant street west, Peckham street, at connection with reservoir and stand pipe, Riverside avenue, Coffin avenue north, Robeson street, County to Ashland street, Sycamore street, Ash street west, Willis street, County street east,				31	338	552 18 50	1,130		
						21	1,671 240		797
							1,626	768	
		26	105	42		17			
		95	117		187		375		17
Totals,	121	222	42	31	575	743	5,042	768	814



## SUMMARY.

## PIPE LAID AND REMOVED.

	36 inch	30 inch	24 inch	20 inch	16 inch	12 inch	10 inch	8 inch	6 inch	4 inch
Previous to 1896 :—										
Cement,										
Cast iron,		1,879	2,373	11,267	19,511	6,179	2,059	851	854	3,163
Cast iron laid during 1896,	21,532	4,778	102	23	3,072	17,817	30,539	92,623	128,136	85,541
						17	4,142	2,154	11,789	1,286
Total pipe laid,										
Cement removed in 1896,	21,532	6,657	2,475	11,290	22,583	24,013	36,740	95,628	140,779	89,990
Cast iron removed in 1896,			121		222	5,042		768	814	
						42		31	575	743
Total pipe now in use,	21,532	6,657	2,354	11,290	22,361	18,929	36,740	94,829	139,390	89,247

Total length laid in 1896, 48,895 feet, or 9.2604 miles.  
 Total length removed in 1896, 8,358 feet, or 1.583 miles.  
 Total length of pipe in use Dec. 1, 1896, 443,329 feet, or 83.9638 miles.

TABLE D.  
SMALL-SIZED DISTRIBUTION PIPE LAID IN 1896.

STREETS.	IRON		LEAD
	3 inch	2 inch	2 inch
Fish Island, from end of siphon to old branch, Siphon from bridge abutment to wharf at Fish Island, Thomas, Sycamore street north,	362	113	245
Totals,	362	113	245

## REMOVED.

STREETS.	IRON	LEAD
	3 inch	2 inch
Fish Island, from end of old siphon to branch, Siphon from bridge abutment to Fish Island,	79	402
Totals,	79	402

Laid previous to 1896, 6,181 feet.  
 Laid during 1896, 720 feet.  
 Removed during 1896, 481 feet.  
 Total length in use Dec. 1, 1896, 6,420 feet, or 1.2159 miles.









LOCATION OF STOP GATES SET IN 1896.—*Continued.*

STREETS.	LOCATION.	SIZE.									
		36 inch.	30 inch.	24 inch.	20 inch.	16 inch.	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.
Warren, Weld, 60-foot way, On by-pass,	West side Brock avenue, East side Mt. Pleasant, West of Shawmut avenue 225 feet, East side High Hill reservoir,	1 1						1		1	
	Totals,	5	6	5	1	5	1	10	9	40	5

STOP GATES REMOVED IN 1896.

STREETS.	LOCATION.	SIZE.						
		30 inch.	24 inch.	16 inch.	12 inch.	8 inch.	6 inch.	4 inch.
Ashland,	South side Durfee,				1			
Blackmer,	East side Front,						1	
Campbell,	West side County,							1
Coffin ave.,	East of Belleville ave- nue 286 feet,						1	
Cottage,	South side Durfee,					1		
County,	South side Willis,				1			
County,	South side Merrimac,				1			
Durfee,	East side Mt. Pleasant,		1					
Kempton,	West side County,						1	
Maxfield,	East side Cottage,					1		
Maxfield,	West side County,					1		
Mt. Pleasant	South side Peckham,		1					
Mt. Pleasant	South side Peckham,		1					
Mt. Pleasant	South side Peckham,				1			
Mt. Pleasant	South side Peckham,				1			
Mt. Pleasant	South side Peckham,				1			
Mt. Pleasant	North of Durfee 68 feet,				1			
Mt. Vernon,	West side Mt. Pleasant,							1
Pumping Station,	At new force main,		1					
Peckham,	Near stand pipe,				1			
Peckham,	East side Mt. Pleasant,	1						
Totals,		1	4	4	5	3	3	2

Number of Stop Gates set in 1896,	87
Number removed,	22
	<hr/> 65
Number in use at date of last report,	863
Number in use Dec. 1, 1896,	<hr/> 928

TABLE E.  
SMALL-SIZED STOP GATES SET IN 1896.

STREETS.	LOCATION.	SIZE.	
		3 inch.	2 inch.
Bridge, Court running south of Parker, Fish Island, Thomas,	At Fish Island for club house,	1	
	West of Cedar,		1
	At end of siphon,		1
	North side Sycamore,		1
Totals,		1	3

REMOVED.

		2 inch.
Fish Island, at end of siphon,		1
Bridge at Fish Island, for club house,		1
Total,		2
Number set in 1896,	4	
Number removed in 1896,	2	
	2	
Number in use Dec. 1, 1895,	66	
Number in use Dec. 1, 1896,	68	

TABLE F.

## PRIVATE STOP GATES SET IN 1896.

STREETS.	LOCATION.	SIZE.			
		10 inch.	8 inch.	4 inch.	2 inch.
Coffin avenue,	At Whitman Mill,		1		
County Terrace,	West side County,				1
Dunbar,	At School house,				1
Front,	At Grinnell Mill,		1		
Grinnell,	At N. B. Paper Co.,			1	
Harbor,	At Dartmouth Mill,	1			
Sawyer,	At Edmond G. Therrien's,				1
Court south of Weld,	East side Ashland,				1
	Totals,	1	2	1	4

## REMOVED.

STREETS.	LOCATION.	SIZE.	
		6 inch.	2 inch.
Front,	At Grinnell Mill,	1	
Hastings Wharf,	West of meter,		1
Hicks,	At Nazaire Boivin,		1
	Totals,	1	2

Number set in 1896, 8

Number removed in 1896, 3

5

Number in use at date of last report, 180

Total number in use Dec. 1, 1896, 185

TABLE G.  
WASTE GATES SET IN 1896.

STREETS.	LOCATION.	SIZE.			
		12 inch.	8 inch.	6 inch.	4 inch.
Mt. Pleasant,	South of Tarkiln Hill road,			1	
Mt. Pleasant,	North of Nash road,			1	
Mt. Pleasant,	At Hathaway road,		1		
Mt. Pleasant,	South of Grant,		1		
Mt. Pleasant,	At Peckham,			1	
Mt. Pleasant,	North of Durfee 6 feet,				1
Mt. Pleasant,	North of Durfee 4.8 feet,			1	
Peckham,	East of Mt. Pleasant,				1
Plainville road,	East of Shawmut avenue,		1		
Shawmut avenue,	South side Turner's pond,	1			
60 foot way,	West of Shawmut avenue,		1		
Totals,		1	4	4	2

Number set in 1896, 11

Number in use at date of last report, 80

Number in use Dec. 1, 1896, 91



## TABLE H.

## LOCATION OF HYDRANTS SET IN 1896.

Abbott street, northwest corner Ruth avenue.  
Acushnet avenue, west side, 836 feet north of Tarkiln Hill road.  
Allen street, southeast corner Devoll.  
Atlantic street, northwest corner Maple.  
Belleville road, southwest corner Diman.  
Belleville road, south side, 1,344 feet east of Acushnet avenue.  
Blackmer street, south side, 284 feet east of Front street.  
Blackmer street, south side, 575 feet east of Front street.  
Blackmer street, south side, 738 feet east of Front street.  
Blackmer street, south side, 904 feet east of Front street.  
Borden street, northwest corner Bedford.  
Bowditch street, southwest corner Davis.  
Bowditch street, west side, 175 feet north of Davis street.  
Chancery street, west side, 650 feet north of Parker street.  
Chestnut street, southwest corner Merrimac.  
Clark street, south side, 218 feet west of County street.  
Coffin avenue, northwest corner Riverside avenue.  
Coffin avenue, south side, 227 feet east of Riverside avenue.  
Coffin avenue, north side, 414 feet east of Riverside avenue.  
Collette street, south side, 275 feet east of Acushnet avenue.  
Cottage street, southwest corner Durfee.  
Cove street, southwest corner West French avenue.  
Dartmouth street, northeast corner Dunbar.  
Davis street, southwest corner Riverside avenue.  
Front street, west side, 200 feet south of Delano street.  
Homer street, southwest corner Locust.  
Independent street, southeast corner Crapo.  
Jouvette street, south side, 338 feet west of County street.  
Katharine street, southeast corner Crapo.  
Katharine street, south side, 442 feet west of County street.  
Kempton street, southwest corner Summer.  
Kempton street, southwest corner County.  
Locust street, southwest corner County.  
Maxfield street, southwest corner County.  
Maxfield street, southwest corner Chestnut.  
Merrimac street, south side, 200 feet west of County.  
Mt. Pleasant street, west side, 35 feet south of Tarkiln Hill road.  
Mt. Pleasant street, west side, 1,671 feet north of Nash road.  
Mt. Pleasant street, west side, 348 feet north of Nash road.  
Mt. Pleasant street, west side, 285 feet north of railroad fence.  
Mt. Pleasant street, west side, 40 feet south of Hathaway road.

Mt. Pleasant street, west side, 277 feet north of Peckham West Cemetery.  
 Mt. Pleasant street, west side, 74 feet south of Peckham West Cemetery.  
 Mt. Pleasant street, west side, 837 feet north of reservoir.  
 Mt. Pleasant street, west side, 450 feet north of reservoir.  
 Mt. Pleasant street, west side, 40 feet north of reservoir.  
 Mt. Pleasant street, west side, 217 feet south of Peckham street.  
 Mt. Vernon street, southwest corner Mt. Pleasant.  
 Mt. Vernon street, southeast corner Vine. Flush.  
 Nye street, south side, 204 feet west of Acushnet avenue.  
 Orchard street, west side, 98 feet north of Rockland street.  
 Palmer street, northwest corner Union.  
 Parker street, southwest corner County.  
 Phillips avenue, southwest corner Riverside avenue.  
 Plainville road, south side, 705 feet east of Shawmut avenue.  
 Plainville road, south side, 1,139 feet east of Shawmut avenue.  
 Plainville road, south side, 2,317 feet east of Shawmut avenue.  
 Plainville road, south side, 3,113 feet east of Shawmut avenue.  
 Plainville road, south side, 3,920 feet east of Shawmut avenue.  
 Plummer avenue, southwest corner Riverside avenue.  
 Pope street, southwest corner Summer.  
 Robeson street, southwest corner County.  
 Rotch street, west side, 140 feet south of Union street.  
 Sand street, northwest corner Grit.  
 Shawmut avenue, northwest corner Plainville road.  
 Sycamore street, south side, 76 feet east of Chancery street.  
 Tallman street, south side, 224 feet west of Acushnet avenue.  
 Union street, south side, 61 feet west of James street.  
 Union street, southeast corner Ocean.  
 Vine street, west side, 215 feet south of Mt. Vernon street.  
 Weld street, southeast corner Mt. Pleasant.

#### REMOVED.

Ashland street, west side, head of Linden street. Flush.  
 Atlantic street, west side, 186 feet south of Arnold street.  
 Belleville road, south side, 233 feet east of Acushnet avenue.  
 Blackmer street, south side, 575 feet east of Front street.  
 Chancery street, west side, 263 feet north of Parker street.  
 Clark street, south side, 170 feet west of County.  
 Coffin avenue, south side, 1,337 feet east of Belleville avenue.  
 County street, northwest corner Parker. Flush.  
 County street, northwest corner of Locust.  
 Dartmouth street, east side, 28 feet north of Dunbar street.

Katharine street, south side, 67 feet east of Crapo street.	
Kempton street, southwest corner Summer.	Flush.
Maxfield street, southeast corner Chestnut.	"
Mt. Pleasant street, southeast corner distributing reservoir.	"
Mt. Pleasant street, west side, 573 feet north of Durfee street.	"
Mt. Pleasant street, northwest corner Durfee.	
Mt. Vernon street, south side, 360 feet west of Mt. Pleasant st.	Flush.
Palmer street, west side, 113 feet south of Court street.	
Pope street, south side, 226 feet east of Chestnut street.	
Riverside avenue, west side, 155 feet north of Coffin avenue.	
Robeson street, southwest corner County.	
Spruce street, west side, 348 feet north of Parker street.	
Sycamore street, south side, 68 feet west of Ash street.	Flush.
Union street, south side, 344 feet west of Park street.	
Water street, northwest corner Cove.	

Number set during 1896,	71
Number removed during 1896,	25
	<hr/>
Number to be added,	46
Number in use at date of last report,	624
	<hr/>
Total number in use Dec. 1, 1896,	670

## TABLE I.

## LOCATION OF AIR TAPS SET IN 1896.

Ashland street, southeast corner Linden.
County street, west side, north of Locust.
Mt. Pleasant street, west side, north of King's Highway.
Mt. Pleasant street, west side, north of Nash road.
Mt. Pleasant street, south of Peckham, north side gate box No. 40.
Mt. Pleasant street, south of Peckham, south side gate box No. 40.
Mt. Pleasant street, east side gate box No. 41.
Mt. Pleasant street, south of Peckham, south side gate box No. 42.
Mt. Pleasant street, north side Durfee, in 30 inch gate box.
Mt. Pleasant street, north side Durfee, in 24 inch gate box.
Plainville road, south side, east of Shawmut avenue 3,744 feet.
Plainville road, south side, east of Shawmut avenue 5,734 feet.
At High Hill reservoir, east side.
At High Hill reservoir, south side.

TABLE J.

## STATEMENT OF WORK DONE BY THE SERVICE DEPARTMENT FOR THE YEAR ENDING DEC. 1, 1896.

KIND AND SIZE.	NUMBER OF SERVICES.	LENGTH ON TAKER.	LENGTH ON CITY.
Lead pipe, $\frac{1}{2}$ inch, heavy,	112	1,079	2,329
Lead pipe, $\frac{3}{8}$ inch, heavy,	100	1,735	2,256
Lead pipe, $\frac{3}{8}$ inch, light,	98	1,013.5	2,012
Lead pipe, $\frac{3}{4}$ inch, heavy,	12	423.5	277
Lead pipe, $\frac{3}{4}$ inch, light,	98	1,291.5	1,945
Lead pipe, 1 inch, heavy,	9	672	240
Lead pipe, 1 inch, light,	1	32	18
Iron pipe, 2 inch,	2	394.5	0
Cast iron pipe, 10—8—6—4— 3 inch,	3		
Totals,	435	6,641	9,077

Two  $\frac{3}{4}$  inch wrought iron services have been taken up and replaced with  $\frac{3}{4}$  inch light lead.

One  $\frac{3}{8}$  inch wrought iron service has been taken up and replaced with  $\frac{3}{8}$  inch light lead.

One  $\frac{3}{8}$  inch light lead service has been taken up and replaced with  $\frac{3}{4}$  inch light lead.

Three  $\frac{3}{4}$  inch light lead services have been taken up and replaced with 1 inch light lead.

Six connections to services previously laid have been made by owners.

One connection to service previously laid has been made by the city, using 19.5 feet of  $\frac{1}{2}$  inch heavy lead pipe.

Two extensions to services previously laid have been made, using 10 feet of  $\frac{3}{8}$  inch light lead and 52 feet of 1 inch light lead pipe.

Four  $\frac{1}{2}$  inch heavy, two  $\frac{3}{8}$  inch heavy, two  $\frac{3}{8}$  inch light, three  $\frac{3}{4}$  inch heavy, three 1 inch heavy lead services and one 2 inch cast iron service have been discontinued.

Length of service pipe laid during the year, 15,718 feet, or  $2\frac{9769}{10000}$  miles.

Total number of services in use Dec. 1, 1896, 8,447.

TABLE K.

AIR TAPS IN USE DECEMBER 1, 1896.

LOCATION.	SIZE.
Ashland street, southeast corner Linden,	$\frac{3}{4}$ inch.
Cedar street, west side, north of Maitland,	1 "
County street, west side, north of Locust,	$\frac{3}{4}$ "
County street, west side, head of Spring,	1 "
County street, west side, south of Bedford,	1 "
Durfee street, south side, west of Cottage,	1 "
Elm street, south side, east of County,	$\frac{3}{4}$ "
Hillman street, south side, east of County,	$\frac{3}{4}$ "
Kempton street, south side, east of County,	$\frac{3}{4}$ "
Middle street, south side, east of County,	$\frac{3}{4}$ "
Mt. Pleasant street, west side, north of King's Highway,	1 "
Mt. Pleasant street, west side, north of Nash road,	1 "
Mt. Pleasant street, north side gate box No. 40, south of Peckham street,	$\frac{3}{4}$ "
Mt. Pleasant street, south side gate box No. 40, south of Peckham street,	$\frac{3}{4}$ "
Mt. Pleasant street, east side gate box No. 41,	$\frac{5}{8}$ "
Mt. Pleasant street, south side gate box No. 42, south of Peckham street,	$\frac{3}{4}$ "
Mt. Pleasant street, north side Durfee, in 30 inch gate box,	$\frac{3}{4}$ "
Mt. Pleasant street, north side Durfee, in 24 inch gate box,	$\frac{3}{4}$ "
North street, south side, east of County,	$\frac{3}{4}$ "
Plainville road, south side, east of Shawmut ave. 3,744 feet,	1 "
Plainville road, south side, east of Shawmut ave. 5,734 feet,	1 "
Pleasant street, west side, north of Maxfield,	1 "
Pleasant street, west side, south of Hillman,	1 "
Pleasant street, west side, north of Kempton,	1 "
Pleasant street, west side, south of Kempton,	1 "
Sixth street, west side, north of Spring,	1 "
Sixth street, west side, south of Walnut,	1 "
Sixth street, west side, south of Bedford,	1 "
State street, west side, north of Austin,	1 "
State street, west side, north of Franklin,	1 "
Union street, south side, east of County,	1 "
William street, south side, east of County,	$\frac{3}{4}$ "
At High Hill reservoir, east side,	1 "
At High Hill reservoir, south side,	1 "

Total number in use, 34.



## TABLE L.

## WATERING CART HYDRANTS.

Acushnet avenue, west side, 4.5 feet north from north line Belleville road.
Acushnet avenue, west side, 13.5 feet north from north line Howard avenue.
Acushnet avenue, west side, 11.9 feet south from south line Tarkiln Hill road.
Allen street, north side, 154 feet east of Page.
Bedford street, south side, 86 feet west of Fourth.
Brock avenue, south side, 58 feet east of French avenue.
Campbell street, south side, 87 feet west of Purchase.
Cedar Grove street, south side, 63 feet east of Acushnet avenue.
Coffin avenue, south side, 16.5 feet west of Acushnet avenue.
Commercial street, south side, 20.2 feet east of Water.
County street, west side, 32.2 feet north of Allen.
Court street, north side, 15 feet east of Ash.
Dartmouth street, east side, 13 feet south of Oak.
Elm street, south side, 57.4 feet west of Purchase.
First street, west side, 118 feet south of School.
First street, west side, 28 feet south of Grinnell.
Grinnell street, south side, 31 feet east of County.
Hawthorn street, south side, 17 feet east of Cottage.
Hawthorn street, head of Tremont.
Hazard street, south side, 21 feet west of Purchase.
Kempton street, south side, 72 feet west of County.
Kempton street, south side, 102 feet east of Newton.
Kempton street, south side, 16 feet east of Rockdale avenue.
Linden street, south side, 30 feet west of Purchase.
Locust street, south side, 25 feet west of County.
Madison street, south side, 17 feet east of Fourth.
Madison street, south side, 39 feet west of County.
Mill street, south side, 9 feet west of Purchase.
Mt. Vernon street, south side, 14 feet west of Mt. Pleasant.
Poplar road, north side, 32 feet west of Bolton road.
Reynolds street, west side, 8 feet north of Linden.
Robeson street, south side, 38 feet west of Cedar.
Sawyer street, north side, 419.8 feet east of Mitchell.
Smith street, south side, 53 feet east of Park.
Spring street, north side, 45.2 feet east of Seventh.
Summer street, west side, 4 feet north of Hillman.
Sycamore street, south side, 77 feet west of County.

Thompson street, south side, 72 feet west of Warwick.

Union street, south side, 65 feet west of County.

Water street, west side, 6 feet south of Blackmer.

William street, south side, 27 feet east of Second.

Willis street, south side, 7.5 feet east of Acushnet avenue.

Number now in use, 42.

## TABLE M.

## LOCATION OF HYDRANTS.

	Pressure in lbs.
Abbott street, northwest corner Ruth avenue . . . . .	56
Acushnet avenue, west side, north of Tarkiln Hill road 837 feet .	48
Acushnet avenue, west side, 542 feet north of Tarkiln Hill road .	54
Acushnet avenue, southwest corner Tarkiln Hill road . . . . .	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet .	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet .	53
Acushnet avenue, west side, north of Howard avenue 600 feet . .	53
Acushnet avenue, west side, north of Howard avenue 6 feet . . .	54
Acushnet avenue, west side, south of Howard avenue 601 feet . .	55
Acushnet avenue, west side, north of Shaw 610 feet . . . . .	51
Acushnet avenue, northwest corner of Shaw . . . . .	47
Acushnet avenue, west side, north of Belleville road 603½ feet . .	45
Acushnet avenue, west side, head of Belleville road . . . . .	42
Acushnet avenue, northwest corner of Nash road . . . . .	40
Acushnet avenue, northwest corner of Hathaway avenue . . . .	40
Acushnet avenue, northwest corner of Davis . . . . .	41
Acushnet avenue, southwest corner of Phillips avenue . . . . .	39
Acushnet avenue, southwest corner of Dean . . . . .	48
Acushnet avenue, west side, north of Sawyer 574½ feet . . . . .	53
Acushnet avenue, southwest corner of Coggeshall . . . . .	56
Acushnet avenue, southwest corner of Cedar Grove . . . . .	54
Acushnet avenue, west side, south of Logan 335 feet . . . . .	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double	62
Acushnet avenue, west side, north of Wamsutta 372 feet . . . . .	60
Acushnet avenue, west side, south of Wamsutta 255 feet. Flush .	63
Acushnet avenue, west side, at end of Wall street . . . . .	62
Acushnet avenue, southeast corner of Pope. Flush . . . . .	64
Acushnet avenue, northwest corner of Willis. Flush . . . . .	61
Acushnet avenue, west side, south of Campbell 179 feet. Flush .	59
Acushnet avenue, northwest corner of Maxfield. Flush . . . . .	57
Acushnet avenue, northwest corner of Kempton. Flush . . . . .	47
Acushnet avenue, northeast corner of Elm. Flush . . . . .	47
Acushnet avenue, northwest corner of School . . . . .	51

Pressure  
in lbs.

Acushnet avenue, northwest corner of Madison . . . . .	57
Acushnet avenue, northwest corner of Russell . . . . .	58
Acushnet avenue, northwest corner of Bedford . . . . .	60
Acushnet avenue, west side, opposite Howland. Flush . . . . .	61
Acushnet avenue, northwest corner of Potomska . . . . .	50
Acushnet avenue, west side, north of Rivet 98 feet . . . . .	59
Acushnet avenue, southwest corner of Blackmer. Flush . . . . .	60
Allen street, south side, 445 feet west of Rural . . . . .	26
Allen street, southeast corner of Devoll . . . . .	29
Allen street, southwest corner of Page . . . . .	36
Allen street, north side, east of Page 159 feet. Flush . . . . .	38
Allen street, northwest corner of Ward. Flush . . . . .	41
Arch street, southwest corner of Union. Flush . . . . .	24
Armour street, southwest corner of Union . . . . .	24
Arnold street, south side, west of Orchard 96 feet . . . . .	22
Arnold street, southwest corner of Chancery. Flush . . . . .	33
Arnold street, southeast corner of Atlantic. Flush . . . . .	32
Arnold street, south side, 15.3 feet west of James . . . . .	24
Ash street, northwest corner of Middle . . . . .	27
Ash street, southwest corner of Morgan. Double . . . . .	25
Ash street, northwest corner of Arnold. Flush . . . . .	32
Ash street, northwest corner of Maple. Flush . . . . .	34
Ash street, northwest corner of Bedford . . . . .	37
Ashland street, southwest corner of Clark . . . . .	12
Atlantic street, northwest corner of Maple . . . . .	29
Atlantic street, southwest corner of Union . . . . .	31
Austin street, southeast corner of State . . . . .	42
Austin street, southwest corner of Purchase . . . . .	56
Austin street, southeast corner of Cedar . . . . .	19
Austin street, south side, on west line of Wilson . . . . .	20
Austin street, southwest corner of Ashland . . . . .	15
Austin street, southeast corner of Shawmut avenue . . . . .	14
Babbitt street, south side, 207.5 feet west of Dartmouth . . . . .	42
Babbitt street, southeast corner of Field . . . . .	37
Bedford street, southwest corner of Fourth . . . . .	53
Bedford street, southwest corner of Fifth . . . . .	55

	Pressure in lbs.
Bedford street, southwest corner of County . . . . .	42
Bedford street, southwest corner of Orchard . . . . .	33
Beech street, northwest corner of Kempton . . . . .	18
Beetle street, southwest corner of Howard . . . . .	55
Beetle street, southeast corner of Front . . . . .	57
Belleville avenue, west side, 118 feet north of Washburn . . . . .	63
Belleville avenue, northwest corner of Cedar Grove . . . . .	62
Belleville avenue, southwest corner of Washburn . . . . .	61
Belleville avenue, west side, 134 feet north of Coggeshall . . . . .	62
Belleville avenue, northwest corner of Beetle . . . . .	60
Belleville avenue, southwest corner of Plummer avenue . . . . .	58
Belleville road, southwest corner of Diman . . . . .	34
Belleville road, south side, east of Acushnet avenue 1,344 feet . . . . .	40
Blackmer street, south side, east of Front 284 feet . . . . .	59
Blackmer street, south side, east of Front 575 feet . . . . .	60
Blackmer street, south side, east of Front 738 feet . . . . .	60
Blackmer street, south side, east of Front 904 feet . . . . .	60
Bolton road, west side, 370 feet north of Rivet . . . . .	50
Bolton road, west side, north of Rotch Mill No. 2 . . . . .	49
Bolton road, west side, south of Rotch Mill No. 2 . . . . .	49
Bolton road, west side, south of Rivet 1,027 feet . . . . .	59
Bolton road, northwest corner of Poplar road . . . . .	59
Bonney street, southwest corner of Allen . . . . .	41
Bonney street, northwest corner of Grinnell . . . . .	48
Bonney street, northwest corner of Rockland . . . . .	54
Bonney street, southwest corner of Thompson . . . . .	55
Borden street, northwest corner of Bedford . . . . .	36
Borden street, southwest corner of Bay . . . . .	42
Bowditch street, southwest corner of Weld . . . . .	56
Bowditch street, west side, 313 feet south of Cedar Grove . . . . .	55
Bowditch street, west side, north of Cedar Grove 244 feet . . . . .	55
Bowditch street, northwest corner of Coggeshall . . . . .	49
Bowditch street, west side, 358 feet north of Coffin avenue . . . . .	34
Bowditch street, southwest corner of Davis . . . . .	29
Bowditch street, west side, north of Davis 175 feet . . . . .	28
Bridge avenue, north side, 44 feet west of draw. Flush . . . . .	62



Pressure  
in lbs.

Bridge avenue, south side, 11 feet west of draw. Flush . . . . .	. 62
Brock avenue, west side, 650 feet east of W. French ave. Flush . . . . .	. 53
Brock avenue, west side, 2,510 feet east of McGurk. Flush . . . . .	. 43
Brownell street, west side, 294 feet south of Union . . . . .	. 22
Bullard street, southwest corner of Belleville avenue . . . . .	. 60
Bullard street, southeast corner of Front . . . . .	. 50
Bullock street, southwest corner of Trinity . . . . .	. 14
Butler street, south side, 1,635 ft. east of Brock avenue. Flush . . . . .	. 55
Butler street, south side, 287 feet east of Brock avenue. Flush . . . . .	. 40
Campbell street, south side, east of County 163 feet. Flush . . . . .	. 28
Campbell street, south side, 216.5 feet west of County . . . . .	. 25
Campbell street, southwest corner of Cottage . . . . .	. 19
Campbell street, south side, east of Shawmut ave. 205 feet. Flush . . . . .	. 18
Campbell street, southwest corner of Purchase . . . . .	. 49
Cannon street, south side, east of Second 164 feet . . . . .	. 63
Cedar street, northwest corner of Elm. Double . . . . .	. 25
Cedar street, southwest corner of Kempton. Flush . . . . .	. 26
Cedar street, west side, north of Mill 75 feet. Flush . . . . .	. 23
Cedar street, southwest corner of Hillman. Flush . . . . .	. 23
Cedar street, northwest corner of Sycamore. Flush . . . . .	. 21
Cedar street, southwest corner of Campbell. Flush . . . . .	. 18
Cedar street, southwest corner of Parker. Flush . . . . .	. 19
Cedar Grove street, southeast corner of Front . . . . .	. 60
Cedar Grove street, southeast corner of Howard . . . . .	. 58
Cedar Grove street, south side, 383 feet west of Bowditch . . . . .	. 57
Cedar Grove street, northwest corner of Purchase . . . . .	. 56
Cedar Grove street, southwest corner of County . . . . .	. 43
Cedar Grove street, south side, 183.5 feet west of County . . . . .	. 40
Centre street, south side, east of Water 85 feet. Flush . . . . .	. 56
Chancery street, southwest corner of Maple . . . . .	. 34
Chancery street, west side, north of Arnold 406 feet . . . . .	. 33
Chancery street, southwest corner of Elm . . . . .	. 28
Chancery street, west side, south of Parker 176 feet . . . . .	. 24
Chancery street, west side, north of Parker 650 feet . . . . .	. 16
Cherry street, southeast corner of Seventh. Flush . . . . .	. 38
Chestnut street, southwest corner of North. Flush . . . . .	. 19

	Pressure in lbs.
Chestnut street, west side, north of Campbell 96 feet. Flush . . .	22
Chestnut street, southwest corner of Merrimac . . . . .	16
Church street, southwest corner of Hathaway avenue . . . . .	33
Church street, west side, 591.4 feet north of Coffin avenue . . . .	36
Clark street, southwest corner of State . . . . .	46
Clark street, south side, west of County 218 feet . . . . .	34
Clay street, northwest corner of Columbia . . . . .	44
Cleveland avenue, west side, 681 feet south of Cove . . . . .	54
Clinton street, south side, east of Orchard 125 feet. Flush . . .	26
Clinton street, south side, west of Ash 242.5 feet . . . . .	44
Coffin avenue, southwest corner of Church . . . . .	40
Coffin avenue, south side, opposite Oneko lane . . . . .	40
Coffin avenue, southeast corner of Bowditch . . . . .	40
Coffin avenue, southwest corner of Belleville avenue . . . . .	59
Coffin avenue, southeast corner of Front . . . . .	50
Coffin avenue, northwest corner of Riverside avenue . . . . .	56
Coffin avenue, south side, east of Riverside avenue 227 feet . . .	56
Coffin avenue, north side, east of Riverside avenue, 414 feet . . .	56
Coffin street, north side, 262 feet east of Water . . . . .	62
Coggeshall street, south side, 654 feet east of Mitchell . . . . .	63
Coggeshall street, south side, 498 feet east of Mitchell . . . . .	62
Coggeshall street, south side, 334 feet east of Mitchell . . . . .	62
Coggeshall street, north side, 148 feet east of Mitchell . . . . .	62
Coggeshall street, southeast corner of Belleville avenue . . . . .	62
Coggeshall street, southwest corner of Front . . . . .	61
Coggeshall street, southwest corner of Purchase . . . . .	53
Coggeshall street, southeast corner of County . . . . .	43
Coggeshall street, south side, 384 feet west of County . . . . .	36
Collette street, south side, east of Acushnet avenue 275 feet . . .	38
Collins street, southeast corner of Glover . . . . .	15
Columbia street, southwest corner of Allen . . . . .	40
Commercial street, north side, east of Front 82 feet . . . . .	62
Cottage road, south side, 435 feet west of Bolton road . . . . .	55
Cottage street, southwest corner of Bay . . . . .	43
Cottage street, northwest corner of Allen. Flush . . . . .	42
Cottage street, northwest corner of Bedford. Flush . . . . .	37

Pressure  
in lbs.

Cottage street, northwest corner of Hawthorn. Flush . . . . .	31
Cottage street, southwest corner of Arnold. Flush . . . . .	23
Cottage street, southwest corner of Union. Flush . . . . .	22
Cottage street, southwest corner of Kempton . . . . .	22
Cottage street, northwest corner of Hillman . . . . .	20
Cottage street, northwest corner of Sycamore . . . . .	20
Cottage street, northwest corner of Parker . . . . .	23
Cottage street, west side, 237 feet north of Locust . . . . .	20
Cottage street, west side, 92 feet south of Austin . . . . .	17
Cottage street, southwest corner of Durfee . . . . .	8
County street, southwest corner of Sawyer . . . . .	44
County street, southeast corner of Penniman . . . . .	44
County street, west side, 234½ feet south of Clark . . . . .	43
County street, west side, 115 feet south of Weld . . . . .	42
County street, southwest corner of Austin . . . . .	33
County street, southwest corner of Smith . . . . .	30
County street, southwest corner of Maxfield. Flush . . . . .	25
County street, southwest corner of North. Flush . . . . .	21
County street, southwest corner of Middle. Double . . . . .	22
County street, southwest corner of Morgan . . . . .	22
County street, northwest corner of Union. Flush . . . . .	24
County street, west side, head of School . . . . .	23
County street, southwest corner of Madison . . . . .	27
County street, southwest corner of Hawthorn . . . . .	32
County street, northwest corner of Allen . . . . .	45
County street, southwest corner of Grinnell . . . . .	61
County street, northwest corner of South . . . . .	62
County street, northwest corner of Winsor . . . . .	57
County street, west side, 71 feet north of Division . . . . .	54
County street, northwest corner of Cove road . . . . .	62
Court street, southwest corner of Orchard . . . . .	20
Court street, southeast corner of Cedar . . . . .	20
Court street, northeast corner of Ash . . . . .	20
Court street, southwest corner of Emerson . . . . .	25
Court street, south side, west from Park 304 feet. Flush . . . . .	32
Court street, south side, head of Jenney . . . . .	23

	Pressure in lbs.
Court street, south side, east of Reed 300 feet . . . . .	22
Cove road, southwest corner of Shore street . . . . .	61
Cove road, north side, 365 feet west of County . . . . .	61
Cove street, southwest corner of Cleveland avenue . . . . .	61
Cove street, southwest corner of Harrison avenue . . . . .	61
Cove street, southwest corner of Salisbury . . . . .	59
Cove street, southwest corner of Viall . . . . .	59
Cove street, southwest corner of McGurk . . . . .	59
Cove street, southwest corner of West French avenue . . . . .	57
Cove street, southeast corner of Stapleton . . . . .	55
Cove street, southeast corner of County . . . . .	62
Crapo street, west side, south of Washington 343 feet. Flush . . . .	60
Crapo street, west side, south of Rockland 225 feet. Flush . . . .	63
Crapo street, west side, 160 feet south of Thompson . . . . .	58
Dartmouth street, east side, southwest of Orchard 110 feet . . . .	46
Dartmouth street, east side, 125 feet south of Hickory . . . . .	47
Dartmouth street, east side, 260 feet south of Rockland . . . . .	45
Dartmouth street, east side, 99 feet south of Thompson . . . . .	44
Dartmouth street, southeast corner of Larch . . . . .	42
Dartmouth street, northeast corner of Dunbar . . . . .	41
Davis street, southwest corner of Riverside avenue . . . . .	56
Davis street, south side, 321.8 feet east of Front . . . . .	50
Davis street, southwest corner of Front . . . . .	46
Dean street, southwest corner of Belleville avenue . . . . .	62
Dean street, southeast corner of Front . . . . .	50
Delano street, southwest corner of Water . . . . .	57
Delano street, southeast corner of Acushnet avenue . . . . .	57
Division street, southeast corner of Second . . . . .	61
Division street, south side, 527 feet west of County . . . . .	62
Division street, south side, east of Crapo 6 feet . . . . .	58
Durfee street, southwest corner of Cedar . . . . .	15
Durfee street, southwest corner of Bullock . . . . .	17
Durfee street, southwest corner of Shawmut avenue . . . . .	12
East French avenue, northwest corner of Abbott . . . . .	61
Edwards street, south side, 90 feet east of Field . . . . .	35
Elm street, southwest corner of Purchase . . . . .	43

	Pressure in lbs.
Elm street, southwest corner of Pleasant . . . . .	37
Elm street, southwest corner of Eighth . . . . .	21
Elm street, southwest corner of Summer. Flush . . . . .	18
Elm street, south side, 43.5 feet west of Florence . . . . .	26
Elm street, southeast corner of Palmer . . . . .	14
Emerson street, west side, 173.8 feet north of Arnold . . . . .	29
Field street, northwest corner of Stowell . . . . .	37
Fifth street, southwest corner of Union . . . . .	41
Fifth street, southwest corner of School . . . . .	45
Fifth street, west side, south of Madison 245 feet. Flush . . . . .	50
Fifth street, northwest corner of Wing . . . . .	59
Fifth street, northwest corner of Grinnell Flush . . . . .	61
First street, southwest corner of Spring. Flush . . . . .	58
First street, west side, south of School 109 feet. Flush . . . . .	57
First street, west side, south of Howland 185 feet. Flush . . . . .	65
First street, northwest corner of Potomska . . . . .	59
Florence street, southwest corner of Hillman . . . . .	24
Florence street, northwest corner of Mill . . . . .	24
Florence street, west side, 199.6 feet south of Kempton . . . . .	27
Florence street, southwest corner of Morgan . . . . .	29
Forest street, south side, west of County 90 feet. Flush . . . . .	53
Foster street, southwest corner of High . . . . .	30
Fourth street, southwest corner of Union. Flush . . . . .	46
Fourth street, west side, north of School 106 feet. Flush . . . . .	46
Fourth street, west side, south of Madison 210 feet. Flush . . . . .	54
Fourth street, east side, opposite Washington . . . . .	57
Fourth street, northwest corner of Rockland. Flush . . . . .	62
Fourth street, west side, south of Potomska 61 feet . . . . .	58
Franklin street, southwest corner of Pleasant. Flush . . . . .	43
Franklin street, southwest corner of State . . . . .	38
French avenue, west side, south of Cove road 14 feet. Flush . . . . .	60
Front street, southwest corner of Holly . . . . .	56
Front street, west side, south of Washburn 319 feet. Flush . . . . .	62
Front street, southwest corner of Logan . . . . .	60
Front street, west side, 190.2 feet south of Logan . . . . .	62
Front street, west side, south of Logan 383 feet . . . . .	63



	Pressure in lbs.
Front street, west side, 235.2 feet north of Wamsutta . . . . .	63
Front street, southeast corner of Wamsutta . . . . .	63
Front street, southwest corner of Middle . . . . .	62
Front street, southwest corner of Hazard's lane. Flush . . . . .	61
Front street, northwest corner of Rodman . . . . .	61
Front street, southwest corner of Centre. Flush . . . . .	61
Front street, west side, south of Commercial 86 feet. Flush . . . . .	63
Front street, northwest corner lane head of Merrill's wharf. Flush . . . . .	65
Front street, west side, south of Howland 268 feet . . . . .	61
Front street, southwest corner of Grinnell . . . . .	62
Front street, west side, south of South 330 feet . . . . .	62
Front street, west side, 191 feet north of Blackmer . . . . .	59
Front street, west side, north of Delano 191 feet . . . . .	62
Front street, west side, south of Delano 200 feet . . . . .	57
Fruit street, south side, east of Hemlock 126.5 feet . . . . .	53
Fruit street, south side, 25.5 feet west of Mulberry . . . . .	46
Gifford street, south side, 274 feet east of Water . . . . .	65
Gifford street, south side, 167.8 feet west of Harbor . . . . .	60
Gifford street, south side, 299.3 feet east of Harbor . . . . .	62
Grand street, south side, 750 feet west of Shawmut avenue . . . . .	14
Granfield street, west side, 263 feet north of Coggeshall . . . . .	59
Grape street, south side, west of Lewis 131 feet . . . . .	36
Grape street, southwest corner of Small . . . . .	35
Grape street, southwest corner of Devoll . . . . .	29
Griffin street, southwest corner of Second. Flush . . . . .	62
Grinnell street, south side, west of Acushnet avenue 76 feet. Flush . . . . .	60
Grinnell street, south side, east of Crapo 103 feet. Flush . . . . .	58
Grinnell street, southwest corner of Orchard . . . . .	50
Grove street, southwest corner of Anthony . . . . .	26
Harbor street, east side, 195 feet north of Cove . . . . .	60
Harbor street, east side, 372 feet north of Cove . . . . .	60
Harbor street, east side, 540 feet north of Cove . . . . .	60
Harbor street, east side, 195.8 feet south of Gifford . . . . .	61
Harbor street, southeast corner of Gifford . . . . .	61
Harmony street, southwest corner of Social . . . . .	59
Harrison street, southwest corner of Hickory . . . . .	48

	Pressure in lbs.
Hathaway avenue, south side, 233.4 feet east of Church . . . . .	33
Hawthorn street, southeast corner of Page. Flush . . . . .	28
Hawthorn street, south side, east of Tremont 147 feet . . . . .	28
Hawthorn street, southwest corner of Brigham . . . . .	26
Hawthorn street, south side, 301 feet west of Brigham . . . . .	24
Hazard street, south side, west of State 140 feet. Flush . . . . .	36
Hazard street, southwest corner of Pleasant. Flush . . . . .	46
Hemlock street, west side, 231 feet south of Rockland . . . . .	50
Hicks street, south side, east of Acushnet avenue 276 feet . . . . .	56
High street, south side, east of Acushnet avenue 43 feet. Flush . . . .	48
High street, southwest corner of Purchase . . . . .	42
High street, south side, east of County 177 feet. Flush . . . . .	23
Highland street, west side, 418.4 feet north of Durfee . . . . .	12
Hillman street, southwest corner of Second. Flush . . . . .	57
Hillman street, southwest corner of Purchase . . . . .	45
Hillman street, southwest corner of Pleasant . . . . .	35
Hillman street, head of State . . . . .	27
Hillman street, head of Thomas . . . . .	23
Hillman street, southwest corner of Chancery . . . . .	29
Holly street, southwest corner of Belleville avenue . . . . .	61
Holly street, southwest corner of Bowditch . . . . .	48
Holly street, southeast corner of Brook . . . . .	47
Hollyhock street, south side, 133 feet east of Field . . . . .	40
Homer street, southwest corner of Locust . . . . .	18
Howard avenue, south side, 364 feet east of Acushnet avenue . . . .	52
Howland street, northeast corner of Second. Flush . . . . .	63
Howland street, south side, 19.2 feet west of Prospect . . . . .	60
Hunter street, southwest corner of Hillman . . . . .	20
Independent street, south side, 480 feet west of County . . . . .	57
Independent street, southeast corner of Crapo . . . . .	56
Irving court, north end of court. Flush . . . . .	25
James street, west side, 107 feet north of Arnold . . . . .	24
James street, southwest corner of Court . . . . .	24
Jouvette street, south side, west of County 338 feet . . . . .	56
Katharine street, southeast corner of Crapo . . . . .	58
Katharine street, south side, 442 feet west of County . . . . .	57

	Pressure in lbs.
Kempton street, southwest corner of Pleasant . . . . .	36
Kempton street, south side, opposite Hill . . . . .	23
Kempton street, southwest corner of Summer . . . . .	14
Kempton street, southwest corner of County . . . . .	15
Kempton street, southwest corner of Emerson. Flush . . . . .	26
Kempton street, southwest corner of Park. Flush . . . . .	28
Kempton street, southwest corner of Liberty. Flush . . . . .	29
Kempton street, southeast corner of Jenney. Flush . . . . .	26
Kempton street, south side, west of Hunter 50 feet . . . . .	21
Kempton street, southwest corner of Francis . . . . .	14
Kilburn street, north side, east of Front 244 feet . . . . .	62
Kilburn street, north side, east of Front 581 feet . . . . .	64
Larch street, south side, 120 feet east of Mulberry . . . . .	45
Larch street, south side, 129 feet east of Hemlock . . . . .	51
Liberty street, west side, south of Kempton 339 feet. Flush. . . . .	30
Lincoln street, west side, south of Union 171 feet. Flush . . . . .	23
Linden street, south side, west of State 13½ feet . . . . .	43
Linden street, south side, west of County 169 feet . . . . .	34
Linden street, south side, 67½ feet west of Reynolds . . . . .	24
Linden street, south side, 6½ feet east of Ashland . . . . .	14
Lindsey street, west side, 173 feet south of Kempton . . . . .	27
Lindsey street, northwest corner of Morgan . . . . .	24
Locust street, southwest corner County . . . . .	19
Locust street, southwest corner of Chestnut . . . . .	23
Locust street, southeast corner of Richmond . . . . .	15
Logan street, south side, east of Acushnet avenue 400 feet. Flush . . . . .	62
Logan street, southwest corner of Acushnet avenue. Flush . . . . .	63
Lombard street, west side, 209½ feet south of Rockland . . . . .	50
Madison street, southwest corner of First. Flush . . . . .	61
Madison street, southwest corner of Sixth . . . . .	41
Maitland street, southwest corner of Cedar . . . . .	19
Maitland street, south side, 101 feet west of Richmond . . . . .	16
Maxfield street, southwest corner of Second . . . . .	58
Maxfield street, southwest corner of Purchase . . . . .	46
Maxfield street, southwest corner of Pleasant . . . . .	38
Maxfield street, southwest corner of Foster . . . . .	33

Pressure  
in lbs.

Maxfield street, southwest corner of County . . . . .	22
Maxfield street, southwest corner of Chestnut . . . . .	15
Maxfield street, southeast corner of Spruce. Flush . . . . .	21
Maxfield street, southeast corner of Ash . . . . .	22
Maxfield street, south side, 44.4 feet east of Chancery . . . . .	27
McGurk street, west side, 348 feet north of Brock avenue . . . . .	55
Mechanics lane, northwest corner of Purchase . . . . .	42
Mechanics lane, north side, east of Eighth 206 feet. Flush . . . . .	30
Merrimac street, southwest corner of State . . . . .	41
Merrimac street, south side, 200 feet west of County . . . . .	16
Middle street, southwest corner of Second . . . . .	52
Middle street, southwest corner of Acushnet avenue . . . . .	46
Middle street, southwest corner of Purchase . . . . .	42
Middle street, southwest corner of Pleasant . . . . .	35
Middle street, southwest corner of Sixth . . . . .	30
Middle street, south side, east of Cedar 371 feet. Flush . . . . .	32
Middle street, southeast corner of Chancery. Flush . . . . .	29
Mill street, northwest corner of Purchase . . . . .	43
Mill street, south side, west of Hill 191 feet. Flush . . . . .	25
Mill street, south side, west of Ash 45 feet. Flush . . . . .	25
Mill street, south side, 104 feet east of Park . . . . .	25
Mill street, southeast corner of Newton . . . . .	26
Mill street, south side, 138 feet west of Hunter . . . . .	18
Mill street, south side, 97.9 feet west of Beech . . . . .	14
Mitchell street, northwest corner of Coggeshall . . . . .	61
Mitchell street, west side, 178.8 feet north of Coggeshall . . . . .	63
Mitchell street, west side, 345 feet south of Sawyer . . . . .	61
Mitchell street, southwest corner of Sawyer . . . . .	61
Moorland terrace, south side, 335 feet east of Page . . . . .	32
Morgan street, southwest corner of Cottage. Flush . . . . .	33
Morton's court, west side, 385.3 feet north of Cove . . . . .	59
Mosher street, south side, west of County 517 feet . . . . .	59
Mosher street, southeast corner of Crapo . . . . .	55
Mt. Pleasant street, west side, south of Tarkiln Hill road 35 feet . . . . .	
Mt. Pleasant street, west side, north of Nash road 1,671 feet . . . . .	
Mt. Pleasant street, west side, north of Nash road 348 feet . . . . .	

Pressure  
in lbs.

Mt. Pleasant street, west side, north of railroad fence 285 feet . . .	
Mt. Pleasant street, west side, south of Hathaway road 40 feet . .	
Mt. Pleasant street, west side, north of Peckham-West Cemetery 277 feet . . . . .	
Mt. Pleasant street, west side, south of Peckham-West Cemetery 74 feet . . . . .	
Mt. Pleasant street, west side, north of reservoir 837 feet . . . .	
Mt. Pleasant street, west side, north of reservoir 450 feet . . . .	
Mt. Pleasant street, west side, north of reservoir 40 feet . . . .	
Mt. Pleasant street, west side, south of Peckham 217 feet . . . .	
Mt. Vernon street, southwest corner Mt. Pleasant . . . . .	5
Mt. Vernon street, southeast corner Vine. Flush . . . . .	5
Myrtle street, west side, 22 feet south of Weld . . . . .	23
Myrtle street, southwest corner of Clark . . . . .	18
Nelson street, south side, 541.6 feet west of County . . . . .	60
Newton street, northwest corner of Elm . . . . .	29
North street, southeast corner of Second . . . . .	54
North street, southwest corner of Acushnet avenue . . . . .	49
North street, southwest corner of Purchase . . . . .	44
North street, northwest corner of Pleasant . . . . .	35
North street, southwest corner of Foster . . . . .	30
North street, southwest corner of Hill . . . . .	26
North street, southwest corner of Park . . . . .	29
North street, south side, 258 feet west of Newton . . . . .	24
North street, southwest corner of Hunter . . . . .	22
North street, southwest corner of Beech . . . . .	17
Nye street, southwest corner of Belleville avenue . . . . .	60
Nye street, southwest corner of Front . . . . .	54
Nye street, south side, west of Acushnet avenue 204 feet . . . .	42
Oak street, southwest corner of Harrison . . . . .	45
Oak street, northwest corner of Grape . . . . .	41
Oak street, southwest corner of Allen . . . . .	38
Ocean street, west side, 184½ feet south of Arnold . . . . .	32
Orchard street, southwest corner of Madison . . . . .	27
Orchard street, southwest corner of Grove . . . . .	34
Orchard street, west side, north of Rockland 98 feet . . . . .	48



	Pressure in lbs.
Page street, west side, 429½ feet south of Hawthorn . . . . .	36
Palmer street, northwest corner Union . . . . .	20
Park place, south side, west of Sixth 306 feet. Flush . . . . .	32
Park street, west side, 27.1 feet south of Maxfield . . . . .	24
Park street, southwest corner of Hillman . . . . .	25
Park street, west side, south of Kempton 339 feet . . . . .	27
Park street, northwest corner of Court . . . . .	28
Park street, west side, north of Arnold 263 feet . . . . .	34
Parker street, south side, at Oak Grove cemetery . . . . .	25
Parker street, southwest corner of Summer. Flush . . . . .	27
Parker street, southwest corner of County . . . . .	21
Pearl street, southwest corner of Pleasant . . . . .	41
Pearl street, southwest corner of Purchase . . . . .	50
Phillips avenue, southwest corner Riverside avenue . . . . .	56
Pine street, northwest corner of Cross. Flush . . . . .	65
Plainville road, south side, east of Shawmut avenue 705 feet . . . .	
Plainville road, south side, east of Shawmut avenue 1,139 feet . . . .	
Plainville road, south side, east of Shawmut avenue 2,317 feet . . . .	
Plainville road, south side, east of Shawmut avenue 3,113 feet . . . .	
Plainville road, south side, east of Shawmut avenue 3,920 feet . . . .	
Pleasant street, northwest corner of Market . . . . .	40
Pleasant street, west side, north of William 21½ feet . . . . .	40
Pleasant street, east side, foot of Sycamore . . . . .	39
Pleasant street, northwest corner of Pope. Flush . . . . .	42
Pleasant street, northwest corner of Austin. Flush . . . . .	47
Pleasant street, southwest corner of Linden. Flush . . . . .	48
Pleasant street, southwest corner of Weld . . . . .	48
Plummer avenue, southwest corner of Riverside avenue . . . . .	56
Plummer avenue, south side, 177 feet east of Belleville avenue . . .	58
Pope street, south side, opposite North Oak . . . . .	27
Pope street, southwest corner of Summer . . . . .	20
Poplar road, south side, 431 feet west of Bolton road . . . . .	52
Potomska street, a group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Po- tomska street . . . . .	64
Prospect street, west side, 275.2 feet north of Grinnell . . . . .	61

	Pressure in lbs.
Prospect street, northwest corner of Grinnell . . . . .	63
Prospect street, west side, north of Potomska 324½ feet . . . . .	62
Prospect street, northwest corner of Potomska . . . . .	63
Purchase street, northwest corner of Dean . . . . .	43
Purchase street, west side, opposite Oneko mill . . . . .	48
Purchase street, east side, opposite Clark . . . . .	58
Purchase street, west side, opposite Logan. Flush . . . . .	58
Purchase street, northwest corner of Merrimac. Double . . . . .	51
Purchase street, northwest corner of Pope. Flush . . . . .	52
Purchase street, west side, 348 feet south of Campbell . . . . .	48
Purchase street, northwest corner of Union. Flush . . . . .	43
Purchase avenue, northeast corner of Purchase . . . . .	42
Reed street, west side, 145 feet north of Court . . . . .	19
Reed street, southwest corner of Elm . . . . .	14
Reed street, southwest corner of Middle . . . . .	14
Reynolds street, southwest corner of Weld . . . . .	26
Reynolds street, west side, 17.9 feet south of Clark . . . . .	29
Rivet street, southwest corner of Second. Flush . . . . .	62
Rivet street, southwest corner of County . . . . .	59
Rivet street, southwest corner of Bonney . . . . .	59
Rivet street, southwest corner of Hemlock . . . . .	51
Rivet street, southeast corner of Bolton road . . . . .	56
Robeson street, southwest corner of County . . . . .	20
Robeson street, southeast corner of Cottage . . . . .	19
Robeson street, southwest corner of Ashland . . . . .	15
Robeson street, southeast corner of Cedar . . . . .	21
Robeson street, south side, 424 feet west of Cedar . . . . .	17
Rockdale avenue, southwest corner of Bolton road . . . . .	57
Rockdale avenue, south side, 327 feet west of Bolton road . . . . .	54
Rockland street, southwest corner of County . . . . .	58
Rockland street, southeast corner of Hall . . . . .	56
Rockland street, south side, 13 feet west of Orchard . . . . .	54
Rockland street, south side, 179.3 feet east of Hemlock . . . . .	51
Rockland street, southwest corner of Lombard . . . . .	50
Rotch street, west side, south of Union 140 feet . . . . .	20
Rounds street, northwest corner of Elm . . . . .	22

	Pressure in lbs.
Rural street, southwest corner of Allen . . . . .	28
Russell street, south side, east of Fifth 92 feet. Flush . . . . .	54
Russell street, southwest corner of Sixth . . . . .	47
Russell street, south side, 179 feet west of Sixth . . . . .	42
Salisbury street, west side, 598 feet south of Cove . . . . .	53
Sand street, northwest corner Grit . . . . .	58
Sawyer street, southwest corner of Bowditch . . . . .	53
Sawyer street, southwest corner of Acushnet avenue . . . . .	59
Sawyer street, southeast corner of Belleville avenue . . . . .	65
Sawyer street, north side, 750 feet east of Belleville avenue . . . . .	63
Sawyer street, south side, 418.8 feet east of Mitchell . . . . .	64
School street, southwest corner of Sixth . . . . .	37
Scott street, south side, 325 feet west of County . . . . .	59
Second street, northwest corner of Mill. Flush . . . . .	55
Second street, west side, south of Elm 52 feet . . . . .	52
Second street, west side, south of Spring 74 feet. Flush . . . . .	55
Second street, northwest corner of Coffin. Flush . . . . .	61
Second street, west side, at head of Morgan's lane . . . . .	60
Second street, west side, north of Grinnell 61 feet. Flush . . . . .	63
Second street, west side, north of Potomska 232 feet . . . . .	61
Second street, west side, south of Potomska 122 feet . . . . .	63
Second street, west side, 188 feet south of Blackmer . . . . .	59
Seventh street, southwest corner of Union . . . . .	31
Seventh street, west side, north of Madison 50 feet. Flush . . . . .	36
Shawmut avenue, southwest corner of Willis . . . . .	18
Shawmut avenue, southwest corner of Parker . . . . .	18
Shawmut avenue, west side, head of Locust . . . . .	17
Shawmut avenue, southwest corner of Robeson . . . . .	14
Shawmut avenue, west side, north of Austin . . . . .	13
Shawmut avenue, west side, 497 feet north of Durfee . . . . .	12
Shawmut avenue, southwest corner of Grand . . . . .	11
Shawmut avenue, west side, 203 feet north of Grand . . . . .	11
Shawmut avenue, northwest corner of Plainville road . . . . .	
Sherman street, south side, west of County 314 feet. Flush . . . . .	51
Shore street, west side, 264 feet south of Cove road . . . . .	61
Short street, west side, 321 feet south of Allen . . . . .	34

	Pressure in lbs.
Sisson street, northwest corner of Union . . . . .	25
Sixth street, west side, north of Grinnell 194 feet . . . . .	60
Smith street, southwest corner of Chestnut. Double . . . . .	22
Smith street, southeast corner of Spruce. Double . . . . .	20
Smith street, southeast corner of Shawmut avenue. Flush . . . . .	22
Smith street, south side, east of Park 5 feet . . . . .	29
South street, southwest corner of Acushnet avenue . . . . .	57
South street, southwest corner of Second . . . . .	59
South street, southwest corner of First . . . . .	59
South street, southwest corner of Water . . . . .	63
South street, southwest corner of Prospect . . . . .	61
Spring street, southeast corner of Acushnet avenue . . . . .	51
Spring street, southwest corner of Seventh . . . . .	27
Spring street, southeast corner of Fifth. Flush . . . . .	42
State street, southwest corner of Sycamore . . . . .	31
State street, southwest corner of Pearl. Flush . . . . .	34
Stone street, west side, 208.6 feet south of Allen . . . . .	38
Summer street, northwest corner of North. Flush . . . . .	16
Summer street, northwest corner of Hillman. Flush . . . . .	16
Summer street, southwest corner of Willis. Flush . . . . .	26
Sycamore street, southwest corner of Thomas. Flush . . . . .	30
Sycamore street, southwest corner of Summer. Flush . . . . .	24
Sycamore street, south side, west of Ash 76 feet . . . . .	26
Tallman street, south side, west of Acushnet avenue 224 feet . . . . .	39
Tallman street, southwest corner of Belleville avenue . . . . .	61
Thompson street, southeast corner of Bourne . . . . .	44
Thompson street, south side, 20 feet east of Hall . . . . .	58
Thompson street, south side, 302 feet west of Bonney . . . . .	55
Thompson street, southwest corner of County . . . . .	59
Tremont street, southwest corner of Union . . . . .	26
Tremont street, northwest corner of Maple . . . . .	29
Trinity street, south side, 145 feet west of Cedar . . . . .	19
Union street, southwest corner of Front . . . . .	63
Union street, southwest corner of Water . . . . .	57
Union street, southwest corner of First . . . . .	56
Union street, southwest corner of Second . . . . .	52

	Pressuse in lbs.
Union street, southwest corner of Acushnet avenue . . . . .	48
Union street, southwest corner of Sixth . . . . .	38
Union street, southeast corner of Emerson . . . . .	28
Union street, south side, west of James 61 feet . . . . .	21
Union street, southeast corner of Ocean . . . . .	28
Viall street, west side, 368 feet south of Cove . . . . .	54
Vine street, west side, north of Durfee 215 feet . . . . .	6
Walden street, southwest corner of Maxfield. Flush . . . . .	31
Wall street, south side, east of Acushnet avenue 165 feet. Flush .	62
Walnut street, northwest corner of Front . . . . .	61
Walnut street, southwest corner of Second. Flush . . . . .	57
Walnut street, southwest corner of Fourth . . . . .	48
Walnut street, southwest corner of Seventh . . . . .	38
Wamsutta street, south side, west of Front 200 feet . . . . .	65
Wamsutta street, south side, west of Front 372 feet . . . . .	65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double	64
Ward street, southwest corner of Bay . . . . .	44
Washburn street, southeast corner of Acushnet avenue . . . . .	59
Washburn street, south side, west of North Front 228 feet . . .	59
Washington street, southwest corner of County . . . . .	57
Washington street, southwest corner of Crapo . . . . .	56
Washington street, south side, west of Orchard 102 feet. Flush .	50
Washington street, southeast corner of Dartmouth. Flush . . .	46
Water street, southwest corner of Hillman. Flush . . . . .	65
Water street, southwest corner of North . . . . .	64
Water street, west side, south of North 258 feet. Flush . . . .	63
Water street, northwest corner of Middle. Double . . . . .	62
Water street, southwest corner of Elm. Flush . . . . .	60
Water street, west side, north of Centre 46 feet. Flush . . . .	50
Water street, west side, north of School 22 feet. Flush . . . .	60
Water street, northwest corner of Walnut. Flush . . . . .	61
Water street, northwest corner of City wharf. Flush . . . . .	62
Water street, northwest corner of Coffin. Flush . . . . .	64
Water street, west side, head of Pine . . . . .	67
Water street, west side, head of Leonard . . . . .	62
Water street, southwest corner of Howland . . . . .	60



	Pressure in lbs.
Water street, northwest corner of Grinnell . . . . .	60
Water street, northwest corner of Potomska . . . . .	63
Water street, west side, 266 feet south of Potomska . . . . .	63
Water street, northwest corner of Rivet . . . . .	63
Water street, southwest corner of Blackmer . . . . .	63
Water street, northwest corner of Delano . . . . .	62
Water street, west side, head of Gifford . . . . .	62
Weld street, southeast corner of Mt. Pleasant . . . . .	7
Weld street, southwest corner of State . . . . .	43
William street, southwest corner of Bethel . . . . .	51
William street, southwest corner of Second . . . . .	48
William street, southeast corner of Acushnet avenue . . . . .	47
William street, southwest corner of Purchase . . . . .	43
William street, southwest corner of Sixth . . . . .	38
William street, southwest corner of Eighth . . . . .	37
Willis street, southwest corner of Purchase . . . . .	50
Willis street, southeast corner of Pleasant . . . . .	41
Willis street, southwest corner of State . . . . .	28
Willis street, southwest corner of County . . . . .	26
Willis street, southwest corner of Cottage . . . . .	19
Willis street, south side, west of Cedar 200 feet. Flush . . . . .	18
Willow street, southwest corner of Cottage . . . . .	15
Willow street, southeast corner of Shawmut avenue . . . . .	13
Wing street, southwest corner of Fourth. Flush . . . . .	57
Wing street, southwest corner of Sixth . . . . .	57
Winsor street, south side, west of County 455½ feet . . . . .	58
Winsor street, south side, 77½ feet east of Crapo . . . . .	60
Number of flush hydrants . . . . .	141
Number of post hydrants . . . . .	529
Total number of hydrants . . . . .	670

## Summary of Statistics.

REPORT OF 1896.

IN ACCORDANCE WITH SUGGESTIONS ADOPTED  
BY THE

New England Water Works Association.

### NEW BEDFORD WATER WORKS, BRISTOL COUNTY, MASS.

Population by census of 1896,

55,251

Date of construction,

1866 to 1869, inclusive.

By whom owned,

The property of the City of New Bedford.

Source of supply,

From a storing reservoir artificially formed  
by constructing a dam across the valley  
of the Acushnet river, seven miles north  
of the centre of the city.

Mode of supply,

By gravitation into the city, thence pumped  
into a distributing reservoir on an ele-  
vated site.

#### PUMPING.

1. Builders of pumping machinery,

- a. McAlpine engine, built by Quintard  
Iron Works.
- b. Worthington engine, built by Henry R.  
Worthington.
- c. High duty Worthington engine, built  
by Henry R. Worthington.

## 2. Description of coal,

*First contract :*

- a. Not applicable.
- b. Bituminous.
- c. Not applicable.
- d. George's Creek Cumberland.
- e. Price per gross ton, delivered, \$3.19.
- f. Percentage of ash, 8½.
- g. Wood, price per cord, \$4.00.

*Second contract :*

- a. Not applicable.
- b. Bituminous.
- c. Not applicable.
- d. Pocahontas.
- e. Price per gross ton, delivered, \$3.55.
- f. Percentage of ash, 7.
- g. Wood, price per cord, \$4.00.

	McAlpine.	Worthington.	High Duty Worthington.
3. Coal consumed for the year, in pounds,			
	1,057,500	395,000	1,431,700
4. $\frac{\text{Lbs. of wood consumed inpounds, } 3}{\text{ }} = \text{coal,}$			
	133	170	170
5. Total fuel consumed for the year (3) + (4),	1,057,633	395,170	1,431,870
6. Total pumpage for the year in gallons,	679,382,030	171,990,948	1,123,832,494
7. Av. static head against which pump works,	125.7	141.5	124.9
8. Av. dynamic head against which pump works,	135.6	151.52	129.51
9. a. Number of gallons pumped per pound of coal (3),	642	435	785

- b. Number of gallons  
raised 100 feet per  
pound of coal for  
total coal (3),

867

659

1,017

10. Duty in foot pounds per  
100 pounds of coal,  
using following form-  
ula, making no deduc-  
tions for starting,  
banking fires, heating  
building, or anything  
else.

$$\text{Duty} = \frac{\text{Gallons pumped (6)} \times 8.34 \text{ (lbs.)} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}.$$

72,355,552

54,999,360

84,774,912

COST OF PUMPING, FIGURED ON PUMPING STATION EXPENSES, VIZ.:  
\$11,305.37.

11. Per million gallons raised against average  
dynamic head (8) into reservoir,

\$5.72

12. Per million gallons raised one foot high  
(dynamic),

4 $\frac{29}{100}$  cents.

COST OF PUMPING FIGURED ON TOTAL MAINTENANCE (see Finan-  
cial CC.), VIZ.: \$76,472.18.

13. Per million gallons raised against average  
dynamic head (8) into reservoir,

\$38.72

14. Per million gallons raised one foot high  
(dynamic),

29 $\frac{4}{100}$  cents.

## FINANCIAL.

## MAINTENANCE.

RECEIPTS.		EXPENDITURES.	
A.	Water rates, domestic,	AA.	Management and repairs, less interest and sinking funds,
	\$85,866.74		\$29,588.85
B.	Water rates, manufacturing,	BB.	Interest on bonds,
	8,290.33		46,883.33
C.	Net water receipts,		Total maintenance,
	\$94,157.07		76,472.18
D.	Miscellaneous, sales, etc.,		Bonds paid,
	103.00		20,000.00
E.	Total,	CC.	Sinking funds,
	\$94,260.07		Sinking funds, further water supply,
			12,000.00
		DD.	Balance to construction,
			29,971.22
J.	From <i>Public Funds</i> : General appropriations, water,		
	12,000.00		
	General appropriations, debt,		
	34,883.33		
K.	Gross receipts,	KK.	Total,
	\$141,143.40		\$141,143.40



## CONSTRUCTION.

RECEIPTS.		EXPENDITURES.	
R.	{ Balance from previous year,	FF. Extensions, mains,	\$31,252.48
	{ Balance from maintenance,	GG. Extensions, services,	
S.	{ Bonds issued,	a. Services,	\$6,530.83
		b. Mill piping, four-	
U.	Other sources, services, private	tains and meters,	3,094.15
	lines, meters, etc,	HH. Special extensions,	00.00
		II. Total construction for year,	\$40,877.46
		JJ. Balance,	37,822.17
V. Total,		KK. Total,	\$78,699.63
	W. Net cost of works to this date,		\$1,702,386.06
	X. Bonded debt at this date,		600,000.00
	Y. Sinking fund,		34,292.84
	Z. Average rate of interest,		5 $\frac{53}{100}$ per cent.

## CONSUMPTION.

1.	Estimated total population at date,	59,000
2.	Estimated population on lines of pipe at date,	49,530
3.	Estimated population supplied at date,	45,570
4.	Total number gallons consumed for year,	1,924,800,313
5.	Passed through domestic meters,	
	40,475,088 gallons, or $1\frac{1}{10}$ per cent.	
6.	Passed through manufacturing meters,	
	316,760,610 gallons, or $16\frac{1}{2}$ per cent.	
7.	Average daily consumption in gallons,	5,259,017
8.	Gallons per day to each inhabitant (1),	89
9.	Gallons per day for each customer (3),	108
10.	Gallons per day to each tap (distribution 22),	623

## DISTRIBUTION.

## MAINS.

1.	Kind of pipe used,	Wrought iron cement-lined, and cast iron.
2.	Size,	From 4 to 36 inches.
3.	Extended,	51,259 feet.
4.	Discontinued,	8,358 feet.
5.	Total now in use,	$84\frac{411\frac{1}{2}}{10000}$ miles.
6.	Cost of repairs per mile,	\$9.80
7.	Number of leaks for the year,	

8.	Small distribution pipe, less than 4 inches, total length,	6,420 feet.
9.	<i>a.</i> Fire hydrants added,	46
	<i>b.</i> Watering cart connections added,	0
10.	<i>a.</i> Number of fire hydrants now in use,	670
	<i>b.</i> Number of watering cart hydrants now in use,	42
11.	Stop gates added,	65
12.	Number now in use,	928
13.	Small stop gates, less than 4 inches, total,	68
14.	Number of blow-off gates,	91
15.	Range of pressure at centre for day and night,	26 to 44 lbs.

## SERVICES.

16.	Kind of pipe used,	Lead and cast iron.
17.	Size,	From $\frac{1}{2}$ to 10 inches.
18.	Extended,	15,718 feet.
19.	Discontinued,	412 feet.
20.	Total now in use,	$53\frac{6}{10}$ miles.
21.	Service taps added,	420
22.	Number now in use,	8,447
23.	Average length of service laid during past year,	36 feet.

24.	Average cost of service,	
	<i>a.</i> Gross,	\$15.01
	<i>b.</i> Net,	6.35
25.	Meters added,	
		112
26.	Number now in use,	
	<i>a.</i> Domestic,	307
	<i>b.</i> Manufacturing,	59
27.	Motors and elevators added,	
		2
28.	Number now in use,	
		81

IN BOARD OF ALDERMEN,  
January 7, 1897.

Received, Ordered printed in the City Documents, and  
sent down for concurrence.

D. B. LEONARD,  
City Clerk.

IN COMMON COUNCIL,  
1 mo. 7th, 1897.

Concurred.

WM. A. MACKIE,  
Clerk.





1897—CITY DOCUMENT No. 4.

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FORTY-FIFTH ANNUAL REPORT

OF THE

TRUSTEES

OF THE

FREE PUBLIC LIBRARY

OF THE

CITY OF NEW BEDFORD,

MASS.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.

# Officers of the Free Public Library

FOR THE YEAR 1897.

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## TRUSTEES.

*Ex officio. Terms expire January, 1898.*

CHARLES S. ASHLEY, Mayor of the City.

GEORGE P. BAILEY, President of the Common Council.

SAMUEL C. HUNT, Chairman of the Committee of the City Council  
on Public Instruction.

*Elected by the City Council.*

WALTER S. ALLEN,	Term expires April, 1899.
ALEXANDER McL. GOODSPEED,	Term expires April, 1898.
ISAAC B. TOMPKINS, JR.,	Term expires April, 1900.
MATTHEW C. JULIEN,	Term expires April, 1900.
LEMUEL LEB. HOLMES,	Term expires April, 1898.
WILLIAM L. SAYER,	Term expires April, 1899.

## PRESIDENT OF THE BOARD.

THE MAYOR.

## CLERK.

WILLIAM L. SAYER.

## COMMITTEES.

On the Library—Messrs. JULIEN, HOLMES, and ALLEN.

On Finance—Messrs. ALLEN, TOMPKINS, and GOODSPEED.

On the Building—Messrs. TOMPKINS, SAYER, and HUNT.

## LIBRARIAN.

ROBERT C. INGRAHAM.

## ASSISTANT LIBRARIAN.

B. W. PENNOCK.

## ASSISTANTS.

JOSEPHINE A. MERRICK,	L. N. NICHOLS,
ETTA F. LAWRENCE,	SUSIE H. GAMMONS,
FLORENCE E. FARWELL.	

## PAGES.

CLEMENT L. YAEGER,	GEORGE LEES,
HERBERT MACY,	EDWARD NORRIS.

## JANITOR.

YORICK W. AMES.

# REPORT.

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*To the City Council of the City of New Bedford.*

GENTLEMEN :—We have the honor to present the forty-fifth annual report of the Board of Trustees of the Free Public Library.

The year has been one of unusual activity in the work of the library. It has witnessed a marked increase in the use to which the library is put by the people of New Bedford, the circulation of books having greatly increased, while the library has been resorted to by readers for pleasure and by students far more than ever before. The catalogue and re-classification begun several years ago is practically completed, though the books in the attic, for which there is no room on the shelves, have not been catalogued. The work done is the cataloguing of not quite 50,000 volumes, making necessary the writing of five cards to each book, or approximately 250,000 cards. The fiction, numbering 9,000 volumes, had been classified previously, but no cards were written. It was necessary to handle these books eight times before they were put in their resting places on the shelves, beside which, on account of the lack of room, most of them had to be moved three or four times. While all this work of cataloguing was going on, however, the regular circulation and reference work of the library continued without a break. The library has not been closed an hour on account of the cataloguing. The new catalogue is made up on what is known as the dictionary plan; that is, the names of authors, the titles of their books, and the subjects are arranged in one alpha-

bet. This makes it possible for the searcher to find the book which he wants, if he knows either the author's name, the title, or the subject. It also facilitates the study of special subjects, and makes the library available for use as it never has been before.

An improvement in administration simplifying the routine of the library work has been a change in the charging system to a plan which involves far less work than the old one, and which makes it possible to trace the whereabouts of a book with little difficulty.

A new idea of the past year, and one which has worked admirably, was the placing of a case for the new books in the reading room, where they are readily accessible to the public. With very few exceptions, all the additions to the library find their way into this case. There is also a case for books which have a special use in connection with some matter which may be of current interest. The patrons of the library appear to appreciate the opportunities which are given them in this way. The books receive constant attention, and instances of abuse of the privilege are rare. On the other hand, there is ample proof that this scheme has increased the circulation of the library and improved its character. In many cases, patrons have taken books which they never would have known had it not been for this chance of unrestricted inspection.

Some attempt has been made to improve the monthly bulletin by including in it, beyond the list of additions, general information concerning the library and brief bibliographies on current topics. These bibliographies are not intended for scholars, but for popular use, and in this light seem to serve a good purpose. In the coming year, some changes are to be made with a view to improving the bulletin still further, though these must be regarded as experimental.

A new feature, just established, is the placing of an in-



formation desk in the public room, in charge of the second assistant librarian. This seemed to be necessary, in view of the increasing demand for help on the part of searchers for information on a wide variety of topics. It is the desire of the trustees that this new department shall be availed of to the fullest extent by the public.

For a number of years the trustees have annually, in their report, spoken of the necessity for more room in which to carry on the operations of the library. Whatever has been said in the past of the need in this respect must be said over again at this time. The trustees can only reiterate with renewed emphasis the often repeated assertion that the library is sadly hampered and fails to reach a satisfactory condition of usefulness and efficiency largely because it is crowded. Within two or three years the use of the reading room has been very largely increased; so much so, that frequently all the seats which can be supplied to readers are occupied at one time. But this reading room is also the room which is used for the delivery of books and for the accommodation of students. Necessarily, the confusion and noise are distracting to readers and students, and are sources of serious annoyance to both classes. It should be remembered that the circulation of books taken away from the library is larger by some eight thousand or nine thousand than it was only a year or two ago, and that the mere routine work of receiving and delivering books is fatal to the quiet required by users of the library within its own walls. Large as the increase in this direction has been, the increase in reference and reading room use is in even larger proportion. These activities of the library have reached a point where they clash, and where one room—particularly the one room at their disposal—is too small for them to dwell together. And here it is well enough to say that the chief difficulty would not be removed merely by pro-

viding one larger room. For the best results, the departments should be distinctly separated. Under the present conditions, the space devoted to the reading room is so limited that the periodicals and newspapers cannot be arranged in convenient shape for the use of readers. For the same reason, not one-half the books of reference which should be placed in the reading room ready to the readers' hand, can be placed there.

Much the same difficulty is encountered in providing for the routine of the library. No work room exists in which books can be received from the bookseller or periodicals from the binder and prepared for the public use. All the work from ordering the books to gumming on the labels has to be done in numerous little crowded corners, where what room there is is needed for the storing of books. Naturally, the work is made cumbrous and expensive, for lack of the proper conditions under which to perform it.

The book shelves are already filled to almost their full capacity, such room as still remains being pre-empted by the natural growth of the library in the next four or five years—perhaps less. It is thus found necessary to load the tops of many of the cases with books and periodicals. Besides, some thousands of books, many of them valuable and in frequent demand, are stored in the attic. Some of them are classified, and can be readily found. More are not, and can be found only with great difficulty, and by most of the library staff not at all. There is, mostly in the attic, partly bound and partly unbound, but not classified or catalogued, except to a very limited extent, one of the finest collections of pamphlets that can be found in the country. Some of them are valuable as curiosities, and many as contributions to the knowledge of local or State history. But, in the present state of affairs, their utilization is impossible. They cannot even be arranged intelligently. They are certainly exposed to the danger of fire,

and they are of necessity withheld from the uses to which they might be put.

The trustees wish also to call attention to the totally inadequate facilities for the consultation of many books and of newspapers. For neither of these things is there any even fair provision. In the case of the newspapers, the bound volumes are stored in many different parts of the building and where some of them are especially difficult of access. Yet they are in constant demand, while patrons are put to all manner of inconvenience in their consultation. Here the defect is particularly noticeable, because much room is needed for the comfortable examination of newspaper files.

Respectfully submitted,

DAVID L. PARKER,  
ARTHUR L. BLACKMER,  
SAMUEL C. HUNT, Ex-officio,

W. S. ALLEN,  
A. M. GOODSPEED,  
L. LEB. HOLMES,  
W. L. SAYER,  
M. C. JULIEN,  
I. B. TOMPKINS, JR., Trustees.

The City Council has made an appropriation of \$2 500 for the establishment of reading rooms under the administration of the library trustees, at the north and south ends of the city. This appropriation was made so late in the year that it could not be acted upon by the trustees in time to make a report of the manner in which it is to be expended. The trustees are heartily in sympathy with the project, and have taken steps toward developing a practical plan of operations as quickly as possible.

The report of the committee on finance for the past year, with the estimates for the coming year, is as follows :

The expenses of the library for the year 1896 amounted to \$15,-689.20, distributed as follows :

Salaries and wages,	\$8,204.49
Purchase of books,	3,237.96
Subscription to periodicals,	677.44
Binding books and periodicals,	625.27
Newspapers,	232.35
Printing,	409.29
Furniture,	93.04
Catalogue expenses, including salaries of cataloguers,	2,037.44
Covers and binders,	29.30
Photographs,	7.00
Supplies,	136.02
	<hr/>
	\$15,689.20

These expenses were met by income, as follows :

City appropriation,	\$8,250.00
Dog fund,	1,239.42
Trust funds,	3,726.00
Special appropriation for catalogue,	1,600.00
Balance from 1895, as follows :	
Trust funds,	828.15
Dog fund,	311.87
Catalogue account,	413.73
Transfers from unappropriated funds,	155.53
	<hr/>
	\$16,524.70

This leaves unexpended balances standing to the credit of the various funds, as follows :

Sylvia Ann Howland,	\$112.65
George Howland, Jr.,	227.13
Charles W. Morgan,	31.61
James B. Congdon,	170.09
Oliver Crocker,	1.73
George O. Crocker,	92.92
Charles L. Wood,	2.15
Dog fund,	197.22
	<hr/>
	\$835.50
Yearly income from trust fund to be added,	3,726.00
Dog fund (estimated),	1,200.00
	<hr/>
Making total available resources,	\$5,761.50

The estimates for the year are as follows :

Books,	\$3,500.00
Periodicals,	800.00
Binding,	800.00
Newspapers,	175.00
Printing,	500.00
Furniture,	100.00
Salaries and wages,	9,000.00
Insurance,	375.00
Catalogue supplies, repairs and sundries,	511.50
	<hr/>
	\$15,761.50
Deduct available resources,	5,761.50
	<hr/>
Appropriation needed for 1897,	\$10,000.00

The trustees have therefore asked for an appropriation of \$10,000.00

Respectfully submitted,

WALTER S. ALLEN,  
A. McL. GOODSPEED,  
I. B. TOMPKINS, JR.,

Finance Committee.



## APPENDIX.

## GENERAL STATISTICS FOR 1896.

Volumes added to the library,	3,203
Volumes worn out or lost,	195
Net increase of the library in volumes,	3,008
Volumes donated,	495
Pamphlets donated,	665
Volumes bound,	372
Volumes rebound and repaired,	826
New cards issued,	1,134
Newspapers on file in reading room,	22
Periodicals in reading room,	171
Books drawn for home use,	116,625
Fiction and juveniles,	78%
Increase of circulation over 1895,	8,497

Attendance at the library on Sundays during 1896: The largest attendance was 95, Jan. 26; the smallest was 19, June 21; total attendance for 43 Sundays, 2,295; average attendance, 54; an increase of 8 over the average for 1895. The library was closed during July and August.

January	5,	62		June	7,	29	
"	12,	58		"	14,	39	
"	19,	80		"	21,	19	
"	26,	95	295	"	28,	53	140
February	2,	84		September	6,	22	
"	9,	64		"	13,	32	
"	16,	82		"	20,	26	
"	23,	72	302	"	27,	31	111
March	1,	69		October	4,	33	
"	8,	83		"	11,	47	
"	15,	85		"	18,	46	
"	22,	72		"	25,	47	173
"	29,	38	347	November	1,	55	
April	5,	52		"	8,	46	
"	12,	52		"	15,	61	
"	19,	35		"	22,	67	
"	26,	40	179	"	29,	85	314
May	3,	40		December	6,	71	
"	10,	24		"	13,	69	
"	17,	21		"	20,	57	
"	24,	42		"	27,	87	284
"	31,	23	150				

# FINANCIAL STATEMENT OF THE FREE PUBLIC LIBRARY FOR 1896.

## STATEMENT OF THE LIBRARIAN.

1896.

Jan. 1. Cash on hand,	\$87.41	
Sale of paper stock,	1.50	
For books lost,	3.75	
Catalogues sold,	40.75	
Fines,	278.71	
	<hr/>	
	\$412.12	
Expenditures :		
Binding and paper cutting,	\$3.45	
Stationery,	24.87	
Express and freight,	32.02	
Books and papers,	9.29	
P. O. box and postage,	24.36	
General incidentals,	226.63	
Balance on hand,	91.50	
	<hr/>	
	\$412.12	

## FREE PUBLIC LIBRARY ACCOUNT.

1896.

City appropriation,	\$8,250.00	
Transfer from unappropriated funds,	217.82	\$8,467.82
Expenditures :		
Salaries and wages,	\$8,204.49	
Printing, binding and supplies,	263.33	\$8,467.82
Paid as follows :		
Salaries and wages :		
R. C. Ingraham,	\$2,250.00	
B. W. Pennock,	1,650.00	
E. L. Jones,	65.00	
L. N. Nichols,	100.00	
A. M. D'Wolf,	138.50	
M. E. Brown,	540.00	
J. A. Merrick,	540.00	
E. J. Merrick,	224.00	
S. H. Gammons,	540.00	
E. F. Lawrence,	271.25	
F. E. Farwell,	328.20	
Y. W. Ames,	689.74	

C. L. Yaeger,	257.04	
D. J. McAuliffe,	68.00	
F. Jason,	201.40	
O. D. Kelliher,	14.65	
S. B. Hamill,	71.77	
J. Griffin,	43.05	
E. Tripp,	22.00	
P. J. Sherman,	2.25	
J. Peck,	50.75	
C. Bly,	29.25	
C. Brownell,	85.80	
E. Frost,	21.84	\$8,204.49
Binding, printing and supplies :		
Library Bureau,	\$91.66	
W. H. Collins & Co.,	42.00	
Mercury Pub. Co.,	20.76	
E. Anthony & Sons,	55.20	
H. S. Hutchinson & Co.,	9.40	
A. P. Pope,	38.06	
Greene & Wood,	6.25	\$263.33

## SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND.

Income,	\$3,000.00	
Balance from old account,	12.83	\$3,012.83
Expenditures :		
Books,	\$2,303.43	
Periodicals,	596.75	
Balance,	112.65	\$3,012.83

The detailed statement of the expenditures from the income of this fund is as follows :

H. S. Hutchinson & Co.,	\$882.43
R. W. Taber,	851.30
Little, Brown & Co.,	51.49
Massachusetts Historical Society,	6.00
S. E. Miller,	8.00
N. J. Bartlett & Co.,	208.54
T. H. Castor & Co.,	25.79
Boston Book Co.,	46.70
Henry H. Sampson,	624.90
American Architect and Building News Co.,	25.00
Dodd, Mead & Co.,	14.00
Bancroft, Whitney & Co.,	12.00
S. D. Peet,	4.00
G. E. Littlefield,	55.57
Houghton, Mifflin & Co.,	25.00

Johns Hopkins Press,	1.76	
American University Pub. Co.,	2.00	
Damrell & Upham,	8.01	
D. L. Brownell,	2.50	
Brookline Historical Society,	1.00	
S. G. Gidley,	9.00	
Franklin Institute,	1.50	
Library Bureau,	1.00	
Macmillan & Co.,	4.00	
Geo. H. Polley & Co.,	3.00	
Cleveland Public Library,	5.00	
Harper & Brothers,	11.00	
C. R. Sherman,	1.00	
G. E. Stechert,	1.19	
H. V. & H. W. Poor,	7.50	\$2,900.18

## GEORGE HOWLAND, JR., FUND.

Unexpended balance of income,	\$290.03	
Income,	96.00	\$386.03
Expenditures:		
Little, Brown & Co.,	\$22.54	
R. W. Taber,	53.36	
T. H. Castor,	11.25	
H. S. Hutchinson & Co.,	26.75	
Houghton, Mifflin & Co.,	25.00	
S. Raymond Roberts,	20.00	\$158.90
Balance,	227.13	386.03

## CHARLES W. MORGAN FUND.

Unexpended balance of income,	\$113.29	
Income,	\$60.00	\$173.29
Expenditures:		
H. V. Gormley,	5.00	
American Antiquarian Society,	1.50	
R. W. Taber,	91.16	
N. J. Bartlett & Co.,	7.31	
T. H. Castor & Co.,	1.10	
H. S. Hutchinson & Co.,	35.61	\$141.68
Balance,	31.61	173.29

## JAMES B. CONGDON FUND.

Balance,	\$241.72	
Income,	30.00	\$271.72
Expenditures:		
D. Appleton & Co.,	\$7.00	
S. S. Rider,	6.75	

Sampson, Murdock & Co.,	2.00	
G. E. Littlefield,	58.48	
A. P. C. Griffin,	3.60	
Anna R. Leonard,	4.00	
H. E. Gifford,	1.80	
R. W. Taber,	15.00	
H. S. Hutchinson & Co.,	3.00	\$101.63
Balance,	170.09	271.72

## OLIVER CROCKER FUND.

Balance,	\$2.17	
Income,	60.00	\$62.17
Expenditures :		
J. O'Neil,	\$7.00	
Egyptian Exploration Fund,	5.00	
American Antiquarian Society,	2.25	
Boston Book Co.,	9.60	
Daniel M. Geddes,	1.00	
Little, Brown & Co.,	2.00	
R. W. Taber,	21.85	
H. S. Hutchinson & Co.,	11.74	\$60.44
Balance,	1.73	62.17

## GEORGE O. CROCKER FUND.

Balance,	\$151.90	
Income,	400.00	\$551.90
Expenditures :		
Sampson, Murdock & Co.,	\$3.00	
R. R. Bowker,	3.50	
N. J. Bartlett & Co.,	100.30	
D. Appleton & Co.,	6.00	
Bancroft, Whitney & Co.,	12.00	
G. E. Littlefield,	2.50	
R. W. Taber,	152.52	
H. S. Hutchinson & Co.,	139.69	
Little, Brown & Co.,	4.04	
F. S. Blanchard & Co.,	1.50	
Boston Public Library,	.50	
W. P. Mitchell,	2.25	
J. L. Thomas,	7.50	
Clinton Scollard,	1.00	
S. E. Miller,	14.00	
W. A. Greenough & Co.,	2.50	
T. H. Castor & Co.,	1.18	\$458.98
Balance,	92.92	551.90



## CHARLES L. WOOD FUND.

Balance,	\$16.29	
Income,	80.00	\$96.21
Expenditures :		
G. E. Littlefield,	\$15.30	
Sound Currency Club,	4.59	
T. H. Castor & Co.,	20.00	
H. S. Hutchinson & Co.,	54.17	\$94.06
Balance,	2.15	96.21

## DOG FUND.

Balance,	\$311.87	
Amount from County Treasury,	1,239.42	\$1,551.29
Expenditures :		
W. H. Collins & Co.,	\$490.22	
H. S. Hutchinson & Co.,	99.65	
E. Anthony & Sons,	254.04	
Mercury Publishing Co.,	96.82	
R. W. Taber,	13.75	
H. H. Sampson,	150.30	
A. Miln,	6.00	
Briggs & Lawrence,	27.98	
G. S. Briggs,	52.05	
F. A. Bradley,	23.30	
F. B. & F. P. Goss,	2.00	
C. D. Waldron,	1.00	
Wood, Brightman & Co.,	9.00	
Greene & Wood,	12.50	
Library Bureau,	6.82	
Coffin Bros.,	26.50	
Almy & Hitch,	6.00	
Norfolk Mfg. Co.,	5.28	
E. H. Pierce,	4.80	
G. K. Phillips,	3.00	
G. D. Richards,	2.38	
F. T. Akin & Co.,	2.28	
A. P. Pope,	45.73	
F. S. Brightman,	6.07	
Evening Journal,	.47	
Danrell & Upham,	4.81	
International News Co.	1.32	\$1,354.57
Balance,	197.22	1,551.29

## CATALOGUE ACCOUNT.

Balance,	\$413.73	
City appropriation,	1,600.00	\$2,013.73
Expenditures :		
E. L. Jones,	\$671.00	
Library Bureau,	355.11	
A. M. D'Wolf,	406.00	
L. N. Nichols,	468.00	
S. B. Hamill,	21.33	
W. H. Collins & Co.,	30.00	\$1,951.44
Balance transferred by Auditor to unappropriated funds,	62.29	\$2,013.73

## GIFTS, 1896.

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	Volumes.	Pamphlets.
Akin, Capt. Timothy, . . . . .	2	.
American Congregational Association, . . . . .		1
American Philosophical Society, Phil., . . . . .	3	
American Humane Association, . . . . .		1
American Unitarian Association, . . . . .		1
Ames, Yorick W., . . . . .		1
Amherst College, . . . . .		1
Andover Theological Seminary, . . . . .		1
Arena Publishing Company, . . . . .	1	
Balch, Edwin Swift, . . . . .	1	
Balch, Thomas W., . . . . .	1	
Benton, J. H., Jr., . . . . .		1
Blinn, Henry G., E. Canterbury, N. H., . . . . .		2
Bolton, Charles K., . . . . .		1
Boston City Government, . . . . .	3	
Boston Young Men's Christian Union, . . . . .		1
Bostonian Society, . . . . .		1
Bowdoin College, Brunswick, Me., . . . . .		3
Bradley, Caleb D., . . . . .		1
Brockett, S. P., . . . . .	1	
Brooklyn Ethical Association, . . . . .		1
Brown, Mary Lizzie, . . . . .		1
Brownell, T. Frank, . . . . .		1
Buffalo Historical Society, . . . . .		1
Bunker Hill Monument Association, . . . . .	3	
Butler, Nathl., Chicago, . . . . .		1
Butler Hospital for the Insane, . . . . .		1
Cadbury, R., Birmingham, Eng., . . . . .	1	
Channing Club, Boston, . . . . .		1
Choate, John C., . . . . .		1
Church Social Union, Boston, . . . . .		1

	Volumes.	Pamphlets.
City of New Bedford, . . . . .	29	
Clarke Institute for Deaf Mutes, . . . . .		1
Cobden Club, London, . . . . .		2
College of Charleston, S. C., . . . . .		1
Commissioners of the State Reservation at Niagara,		1
Commonwealth of Massachusetts, . . . . .	21	2
Connecticut Historical Society, . . . . .		1
Cousins, Robert G., <i>M. C.</i> , . . . . .		1
Crocker, Uriel H., . . . . .	1	
Cutter, Abram E., . . . . .		1
Durfee, Wm. F., . . . . .	1	
Doyle, John T., . . . . .		1
Educational Church, Albany, N. Y., . . . . .		1
Egypt Exploration Fund, . . . . .	1	
Field-Columbian Museum, . . . . .		6
Forbush, Edward H., . . . . .	1	
Foreign Importers Inquiry Co., . . . . .		1
Frothingham, Paul Revere, . . . . .		1
Furman, Alfred A., Clifton, N. J., . . . . .		
Garnier, John, . . . . .		1
Gifford, Wm. L. R., . . . . .	6	1
Gildehaus, Charles, . . . . .	1	
Goodyear, Anna F., . . . . .		1
Government of the United States:		
Agricultural Department, . . . . .	1	110
Bureau of Education, . . . . .	6	1
Fish Commission, . . . . .	1	
Interior Department, . . . . .	7	11
Interstate Commerce Commission, . . . . .		1
Labor Bureau, . . . . .	1	8
Miscellaneous, . . . . .	18	
Patent Office, . . . . .	5	4
Public Documents. (In sheep), . . . . .	106	
Treasury Department, . . . . .	1	
War Department, . . . . .		7 maps.
Green, Dr. Samuel A., . . . . .		4
Hall, Joseph, Friends Book Store, Phil., . . . . .		2
Hamilton, Morris R., . . . . .	1	
Harvard University, . . . . .	3	3
Hoepli, Ulrico, . . . . .	1	
Hutchinson, H. S., . . . . .	6	
Indian Rights Association, . . . . .		1
Johns Hopkins University, Baltimore, . . . . .		5
Julien, Matthew Cantine, . . . . .		3

	Volumes.	Pamphlets.
Keidel, George, . . . . .		1
Leffingwell, Albert, M. D., Cambridge, Mass., . .		1
Lexington Historical Society, . . . . .		1
Libraries :		
Baltimore. Enoch Pratt Free Library, . . . .		1
Boston Public Library, . . . . .		6
Brookline Public Library, . . . . .		6
Brooklyn Library, . . . . .		3
Buffalo Library, . . . . .		1
Burlington, Vt. Fletcher Free Library, . . .		1
Cambridge, Mass. Free Public Library, . . .	10	
Chicago Public Library, . . . . .		1
Clinton, Mass. Bigelow Free Public Library, .		1
Cincinnati Public Library, . . . . .		5
Danvers, Mass. Public Library, . . . . .		1
Denver Public Library, . . . . .		1
Detroit Public Library, . . . . .		1
Fall River Public Library, . . . . .		2
Fitchburg Library, . . . . .		2
Germantown. Friends' Library, . . . . .		1
Hartford Public Library, . . . . .		6
Hopedale Public Library, . . . . .		1
Jersey City Public Library, . . . . .	11	
Lawrence Public Library, . . . . .		4
Los Angeles Public Library, . . . . .		1
Lowell City Library, . . . . .		2
Lynn Public Library, . . . . .		1
Malden Public Library, . . . . .		1
Medford Public Library, . . . . .		1
Milwaukee Public Library, . . . . .		1
Minneapolis Public Library, . . . . .		3
Monmouth, Ill. Warren Co. Library, . . . .		2
Natick. Morse Institute Library, . . . . .		1
Newark, N. J. Free Public Library, . . . .		1
Newport. Redwood Library, . . . . .		1
Newton Free Library, . . . . .		1
New York. Aguilar Free Library, . . . . .		1
General Soc. of Mechanics and Tradesmen,		3
Maimonides Free Library, . . . . .		1
Mercantile Library Association, . . . .		1
Northampton. Forbes Library, . . . . .		1
Paterson, N. J. Public Library, . . . . .		2
Peoria Public Library, . . . . .		1



	Volumes. Pamphlets.	
Philadelphia. Apprentices Library Company,		2
Library Company, . . . . .		2
Mercantile Library Company, . . . . .		3
Pittsburg, Pa. Carnegie Library, . . . . .	1	10
Portland Public Library, . . . . .		1
Providence Athenæum, . . . . .		15
Public Library, . . . . .		10
Rutland, Vt. Free Library Association, . . . . .		1
St. Louis. Mercantile Library Association, . . . . .		2
Salem Public Library, . . . . .		10
San Francisco Mercantile Library Company, . . . . .		1
Public Library, . . . . .		14
Seattle Library Commission, . . . . .		1
Somerville Public Library, . . . . .		10
Springfield. City Library Association, . . . . .		10
Syracuse. Central Library, . . . . .		1
Taunton Public Library, . . . . .		2
Waltham Public Library, . . . . .		6
Watertown Library, . . . . .		1
Worcester Free Public Library, . . . . .		8
London School of Economics, 10 Adelphi Terrace, Lond.. W. C., . . . . .		1
Massachusetts Institute of Technology, . . . . .		2
Merrick, Josephine A., . . . . .	3	
Merrill, Edward B., . . . . .	15	46
Missouri Botanical Garden, . . . . .		1
Morgan, Richard H., . . . . .	14	120
Mount Holyoke College, . . . . .		1
National Civil Service Reform League, . . . . .		1
National Democratic Committee, . . . . .		1
Newell, F. H., . . . . .		1
New England Water Works Association, . . . . .		2
New York Farmers, . . . . .		1
New York Securities Company, . . . . .	1	
Ohio Department of Agriculture, . . . . .		2
Orr, William, Jr., . . . . .		1
Parker, Rev. H. W., . . . . .		1
Peabody Institute, Baltimore, . . . . .		1
Pennock, Benj. W., . . . . .	1	
Perkins Institute for the Blind, . . . . .		1
Peters, Eugene, Wash., D. C., . . . . .	1	
Pettis, Olive G., . . . . .	1	
Potter, Heirs of Southward, . . . . .	23	
Preston, Sidney H., Lond., W. C., . . . . .	1	

	Volumes.	Pamphlets.
Providence Record Commissioners, . . . . .	1	
Publishers of Saints Herald, Lamont, Ohio, . . . . .		1
Reorganized Church of Jesus Christ, . . . . .		1
Richard A. Peirce Woman's Relief Corps, No. 95, . . . . .		1
Royal Society of Canada, . . . . .	1	
Russell, James B., . . . . .		1
Sayer, William L., . . . . .	2	2
Scott Stamp and Coin Co., . . . . .		1
Sedelmeyer, Charles, . . . . .	1	
Simpkins, John, <i>M. C.</i> , . . . . .	8	4
Smithsonian Institution, . . . . .	1	3
Rhode Island and Providence Plantations, . . . . .		2
Taber, Capt. C. A. M., . . . . .	1	
Taber, Robert W., . . . . .	1	
Thompson, Mrs. Susan Taber, . . . . .	33	
Trustees for the Children of Shalam, . . . . .		1
Trustees of the Subscription Fund for Cambridge Volunteers, . . . . .		2
Tulane University, New Orleans, . . . . .		1
University Club, N. Y., . . . . .		2
University of California, . . . . .		1
University of Chicago, . . . . .	1	
University of Nebraska, . . . . .		1
University of Pennsylvania, . . . . .		1
University of the State of New York, . . . . .	3	5
University of Vermont, . . . . .		1
Van Doren, A. H., Camden, N. J., . . . . .	1	
Ventine, F. & M., Venice, Italy, . . . . .		1
Wheeler, J. & D., Wheeler, Alabama, . . . . .	1	
Wiley, Henry, . . . . .	45	9
Worth, Henry B., . . . . .		2
Yale University, . . . . .	1	1
Young Men's Christian Association, Massachusetts and Rhode Island, . . . . .		1

## PERIODICALS AND MS.

American Antivivisection Society. *Journal of Zoophily*, 1896. Phil., 1896. 4°.

American Citizen, 1896. Bost., 1896. fo.

American Peace Society. *The Advocate of Peace*, 1896. Bost., 1896. 8°.

American Unitarian Association. *The Christian Register*, 1896. Bost., 1896. fo.

Brooks Club. *The Grace Church Monthly*. New Bedford, 1896. fo.

Catholic Union Publishing Company. *The Catholic Union*, 1896. New Bedford, 1896. fo.

Christian Science Pub. Society. *The Christian Science Journal*, 1896. Bost., 1896. 8°.

Cook, Thomas, & Son. *Cook's Excursionist*, 1896. N. Y., 1896. fo.

Durfee, Wm. F. *Log Book of Bark Columbus*, Cary, 1836-39. MS. fo.

Filmer, John, *and others*, *Eds.* *The New Earth*, 1896. N. Y., 1896. fo.

Holy Cross College, Worcester. *The Holy Cross Purple*, 1896. Worc., 1896. 8°.

Labor News Company. *The People*, 1896. N. Y., 1896. fo.

Lummis, Chas. F., *Ed.* *The Land of Sunshine*, 1896. Los Angeles, Cal., 1896. 8°.

Mass. Society for Prevention of Cruelty to Animals. *Our Dumb Animals*, 1896. Bost., 1896. 4°.

Murphy, John, and Comp., *Pubs.* *The Tablet*, 1896. Balt., 1896. 4°.

Reorganized Church of Jesus Christ of Latter Day Saints. *The Saints' Herald*, 1896. Lamoni, Iowa, 1896. 18°.

— *Autumn Leaves*, 1896. Lamoni, Iowa, 1896. 8°.

Salvation Army, *War Cry*, 1896. N. Y., 1896. fo.

— *Young Soldier*, 1896. N. Y., 1896. 8°.

Travelers Ins. Company. *Travelers Record*, 1896. Hartford, 1896. 4°.

University of Tennessee. *Tennessee University Magazine*, 1896. Knoxville, 1896. 8°.





1897—CITY DOCUMENT No. 3.

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# ANNUAL REPORT

OF THE

# CHIEF ENGINEER

OF THE

# FIRE DEPARTMENT

OF THE CITY OF NEW BEDFORD,



FOR THE YEAR ENDING DECEMBER 31, 1896.

---

FREDERICK MACY, Chief Engineer.

NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.





COMMITTEE OF THE CITY COUNCIL  
ON  
FIRE DEPARTMENT,  
1896.

*Aldermen,*

J. ARTHUR TAYLOR,

*Residence, 11 South Ash street.*

JOHN H. BARROWS,

*Residence, 64 Thomas street.*

---

*Councilmen,*

ROBERT S. LAWTON,

*Residence, 65 Maxfield street.*

*Died, May 28, 1896.*

MORTIMER McCARTHY,

*Residence, Clark and State streets.*

CHARLES H. L. DELANO,

*Residence, 2 Anthony street.*

WILLIAM L. CHADWICK,

*Residence, 107 Elm street.*

# ENGINEER'S DEPARTMENT.

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*Chief Engineer,*

FREDERICK MACY,

*Residence, 234 Acushnet avenue.*

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*First Assistant Engineer,*

LORING T. PARLOW,

*Residence, High street.*

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*Second Assistant Engineer,*

EDWARD F. DAHILL,

*Residence, 764 County street.*

---

*Third Assistant Engineer,*

ALLEN W. TINKHAM,

*Residence, 5 Smith street.*

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*Fourth Assistant Engineer,*

WILLIAM A. GIBBS,

*Residence, 181 Fourth street.*

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*Clerk of Board of Engineers,*

LUTHER G. HEWINS,

*Residence, 762 County street. Died, Nov. 3, 1896.*

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*Master Mechanic,*

DANIEL D. BRIGGS,

*Residence, 43 Bedford street.*

---

*Department Engineer,*

GEORGE H. PARKER,

*Residence, Parker street.*

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*Department Drivers,*

CHARLES A. HASKINS,

*Residence, 256 Kempton street.*

FRANK A. LEWIS,

*Residence, 208 Kempton street.*

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*Department Lineman,*

WILLIAM CURTIS,

*Residence, 88 South Sixth street.*

# REPORT.

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HEADQUARTERS FIRE DEPARTMENT,  
CITY HALL, NEW BEDFORD,  
December 31, 1896.

GENTLEMEN :—In compliance with the requirements of the city ordinance governing the Fire Department of the city, I herewith submit to you my twentieth annual report of the condition and work performed by this department for the year 1896, together with a list of members, with their rank, number of badge, age, residence, and occupation; location of hydrants and fire alarm boxes; a statement of receipts and expenses; fires and alarms; losses and insurance, as near as could be ascertained; and such suggestions as I think will be necessary for the good of the department.

The department is in most excellent condition at the present time, and I think I can safely say better than ever before. The members take great interest in their work, they have been prompt in all their duties, and have done their work to the entire satisfaction of this Board.

The loss by fire has been larger than an average, but still, when we consider the rapid growth of the city and the amount at risk, we have no cause to complain.

The fires causing the greatest loss, occurred as follows : May 26th, 3.17 P. M., estate of E. Johnson, No. 171 Kempton street. August 4th, 3.50 P. M., estate of Simeon Hawes, ice houses at Plainville. Sept. 19th, 6.35 A. M., Bennett Mill cotton shed. (This fire caused more than two-thirds of the loss for the year.) Sept. 19th, 6.35 and 10.05 P. M., City Mfg. Company.

In connection with the mill fires, I would call the attention of the incoming government to a matter which I think is our weakest point, and that is the number of permanent men. It is an acknowledged fact that the most dangerous time for fires in our mills is when they close at noon and night and very few persons left on the premises. That is just the time a portion of our men are at their meals and I would recommend that a few be added each year.

I regret to have to report the death of Luther G. Hewins, Jr., who for nearly twenty years, as Secretary of this Board, endeared himself to every member of this department, and his memory will ever be cherished by us all.

The members of this department have been very fortunate, and I am happy to report that during the year no accident has befallen any of them while in the discharge of their duties.

### FORCE OF THE DEPARTMENT.

The force of the department consists of one chief, four assistants and clerk; thirty-five men permanently employed and one hundred and seventy-nine call men, making a total of two hundred and twenty men.

### APPARATUS.

The apparatus consists of eight steam fire engines, all in first class order, one hand engine at the Head of the River, two two-wheeled hose reels, seven hose wagons, one combination chemical, three Hayes aerial ladder trucks in commission (one Ryan truck in reserve), nine exercise and coal wagons, and one telegraph wagon.

The two old and worthless engines have been exchanged and one new one bought during the year, which I think will be all the engines we will need for a long time, as

the increased supply and pressure of the new water works will work quite a revolution in the extinguishment of fires ; for while I would not advocate doing away with the steam engines we now have, I think as the city grows and the demand for fire protection increases, it can be met by hose wagons and chemicals at far less expense.

During the year there were two petitions before the government for more fire protection at the south end and at the west side of the city, but nothing has been done, and I would earnestly recommend that the incoming government look into the matter and decide what is best to be done.

### HOUSES.

There are eight brick and one frame engine houses, all in very good order, and I know of no great expense required the coming year.

There has been an addition to the Weld Street Station, which makes it much more convenient.

### HORSES.

There are forty-three horses belonging to the department, most of them in very good condition, but it will be necessary to replace some of them. Engine 6 should have a new pair immediately, to replace those that have been doing duty fourteen years.

### HARNESSES.

There are nineteen double and ten single harnesses, all in good condition.

### HOSE.

There are eighteen thousand feet of two and one-half-inch cotton, rubber lined hose in the department, most of which is in good condition, which will be ample for the coming year.



## WATER SUPPLY.

The number of hydrants, January, 1, 1896, was six hundred and twenty-four (624).

Added during the year, forty-six (46), making a total of six hundred and seventy (670).

We have also twenty-eight (28) reservoirs, which are kept in good repair and can be used as a reserve supply in case of necessity.

## FIRE ALARM.

There has been a large amount of work done in this department during the year in rebuilding and changing the different circuits, but the most important has been the underground work, and in a few weeks we will have one hundred and seventeen thousand (117,000) feet of fire and police alarm wires in the centre of the city connected with our repeaters, and working out of sight.

We can then remove a large amount of wire from overhead, and many unsightly poles from the streets. I hope the result of this year's work on the underground system will be so satisfactory that it will be an easy matter to get an appropriation each year to continue the good work.

Another matter which I would bring to your attention is the old fire alarm boxes, which were put in twenty-five years ago when our fire alarm system was introduced, and although they have done very well in most instances, there have been times when they caused some trouble. During the year we have changed four of them and put in the improved non-interference boxes, and I am anxious to change them all, or as many as possible the coming year. During the year, all of our boxes have been fitted with the Smith key boxes, and they have worked very satisfactorily.

There has been no addition to the number of boxes dur-

ing the year, but I would recommend putting one on the Middle Point road, near the new schoolhouse, and one at Cannonville. We have now a total of eighty-five (85) boxes, twenty-seven of which are private; forty miles of wire, twelve (12) bells and strikers, nine (9) fifteen-inch engine house gongs, seven (7) seven-inch engineers' gongs and eight (8) small tappers operated by a battery of two hundred and thirty-eight (238) cups.

### PROTECTIVE DEPARTMENT.

The members of this department have rendered very efficient service, as usual, although their services have not been required as much as has been the case in some years previous; they have always been on hand ready for duty.

### RECEIPTS AND EXPENDITURES.

Annual appropriation for 1896.	\$60,000.00	
Special appropriation for new engine,	3,500.00	
Special appropriation for Central engine house ventilation,	850.00	
Transfers from unappropriated fund,	8,627.94	
	<hr/>	
	\$72,977.94	
Expenditures for 1896,		72,799.44
Balance to account of 1897,		178.50
		<hr/>
		\$72,977.94

### CONCLUSION.

To His Honor the Mayor, gentlemen of the City Council, for the interest taken in this department; to the officers and members of the fire and police departments for the faithful manner in which they have performed all their duties, I return my sincere thanks.

FREDERICK MACY,  
Chief of Fire Department.

## STATEMENT OF EXPENDITURES.

Salaries,	\$2,350.00
Pay-rolls,	51,187.53
Shoeing and blacksmithing,	863.99
Hay and straw,	3,065.14
Grain,	1,460.40
Supplies,	808.38
Lights,	762.99
Wood and coal,	1,086.50
Rents,	122.08
Telephones,	450.00
Fire alarm supplies,	936.75
New engine,	3,500
Engine and wagon repairs,	870.64
Repairs of buildings,	741.21
Horses,	248.00
Horse hire,	1,026.25
Printing and incidentals,	697.57
Harnesses and repairs,	309.31
House furnishings,	296.65
Hose,	1,081.00
Central engine house ventilation,	935.05
	<hr/>
	\$72,799.44

## ONWARD STEAM FIRE ENGINE COMPANY

## No. 1.

House on Purchase street, foot of Franklin street. Engine built by Amoskeag Manufacturing Co., Manchester, N. H.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 6,950 pounds; put into service August 26, 1869. Present company organized December 30, 1871.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
May 7, 1883.	11	Fred. W. Brightman	Captain	36	178 Kempton st.	Paint manfr.
May 5, 1890.	15	Oscar S. Hammond	1st Lieut.	28	70 North st.	Carpenter.
April 24, 1893.	10	James L. Haskins	2d Lieut.	30	643 Purchase st	Teamer.
Jan. 28, 1873.	7	Julian A. Sweet	Clerk	48	134 State st.	Roll coverer.
May 31, 1880.	14	Chas. A. Wilson	Hoseman	39	95 Walden st.	Carpenter,
Dec. 29, 1884.	19	John Whitehead	"	51	580 Purchase st	Copper worker
July 28, 1890.	16	Chas. H. Thomas	"	43	87 Locust st.	Roll coverer,
Jan. 30, 1892.	9	Robert Woolfenden	"	31	401 Pleasant st.	Barber.
July 31, 1893.	18	John Woolfenden	"	33	400 Pleasant st.	Jeweler.
July 30, 1894.	13	Herbert C. Gifford	"	23	236 Pleasant st.	City foreman.
Mar. 25, 1895.	6	Law. T. Woolfenden	"	26	401 Pleasant st.	Shoe dealer.
Mar. 30, 1896.	12	Thos. Walmsly	"	23	Cor. Robeson and Ashland	Grocer.
Sept. 30, 1895.	14	Edw. F. Tripp	Substitute	35	359 Pleasant st.	Horseshoer.
April 27, 1896.	8	Wm. H. Harlow	"	23		
June 9, 1894.	24	John H. Backus	Engineer	44	541 Purchase st	Driver.
June 9, 1894.	21	Edw. F. Cowen	Driver	47	Engine house	"
Dec. 1, 1894.	22	Geo. H. Backus	Stoker	23	541 Purchase st	Machinist,
Dec. 1, 1894.	23	William H. Young	Driver	36	Engine house	Driver.

## PROGRESS STEAM FIRE ENGINE COMPANY

## No. 2.

House, corner Purchase street and Mechanics lane. Engine built by the Manchester Locomotive Works, Manchester, N. H.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 7,000 pounds; put into commission November 6, 1884. Company organized October 27, 1860.

DATE OF JOINING.	No. of Badge.	NAME.	RANK	AGE.	RESIDENCE.	OCCUPATION.
Nov. 1, 1862.	25	John Downey	Captain	59	118 N. Second st	Teamer.
May 5, 1884.	36	Samuel W. Mitchell	1st Lieut	38	155 Purchase st	Clerk.
July 2, 1894.	31	John H. Dollard	2d Lieut.	42	42 Arch st.	Stone cutter.
Dec. 1, 1890.	24	Jas. L. Crowley	Clerk	27	4 No. Oak st.	Plumber.
Sept. 7, 1874.	32	Chas. F. Dean	Hoseman	39	59 Elm st.	Painter.
July 3, 1876.	34	Moses Dean	"	42	202 Purchase st	Blacksmith.
Jan. 12, 1892.	28	Henry A. Sherman	"	40	327 County st.	Carriage smith
Jan. 12, 1892.	30	Geo. W. Haskins	"	28	18 Mill st.	Carriage trim'r
Apr. 22, 1896.	33	Chas. P. Johnson	"	38	72 First st.	Mechanic.
Apr. 22, 1896.	27	John W. Baker	"	35	42 Hill st.	Carpenter.
July 1, 1896.	35	William L. Durfee	"	23	69 Mechanics l.	Driver.
Sept. 1, 1892.	129	Edward E. Spooner	Substitute	22	60 Spring st.	Clerk.
Apr. 22, 1896.	37	Chas. E. Robertson	"	21	71 Foster st.	"
Aug. 23, 1892.	38	Benjamin Groves	Engineer	41	Engine house.	Engineer.
June 25, 1893.	39	Charles Allen	Driver	40	" "	Hostler.
Apr. 26, 1895.	41	Roland Hatch	Reel driver	27	208 Kempton st	"
Aug. 20, 1874.	40	Lemuel W. Hayes	Stoker	53	23 North st.	Engineer.

## CORNELIUS HOWLAND STEAM FIRE ENGINE COMPANY No. 4.

House, corner Sixth and Bedford streets. Engine built by the Manchester Locomotive Works, Manchester, N. H.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 7,000 pounds; put into service May 20, 1884. Company organized February 1, 1867.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Sept. 29, 1872.	44	Charles S. Wing	Captain	42	279 Acush. ave.	Clerk.
Dec. 6, 1877.	47	Charles H. Card	1st Lieut.	49	73 Forest st.	Painter.
May 14, 1895.	42	George F. Tobey	2d Lieut.	37	7 Crapo st.	Plumber.
Feb. 16, 1888.	49	Frank C. Jennings	Clerk	30	19 Allen st.	Oil dealer.
Jan. 29, 1867.	46	James M. Tripp	Hoseman	60	211 Acush. ave.	Pattern maker.
Aug. 23, 1882.	52	Samuel Watson, 2d	"	38	174 Fourth st.	Fish merchant.
July 26, 1886.	43	Wm. E. Watson, Jr.	"	33	37 Fifth st.	" "
July 2, 1894.	48	Harrie B. Jennings	"	22	19 Allen st.	Clerk.
Nov. 10, 1879.	53	Benj. F. Hinckley	"	39	179 Fourth st.	Printer.
Jan. 5, 1894.	50	Henry Larocque	"	26	86 So. Sixth st.	Machinist.
May 28, 1894.	45	Louis A. Vierick	"	25	102 Fourth st.	Frame maker.
Sept. 1, 1892.	51	William C. Hiscox	"	33	57 Bedford st.	Electrician.
	54	John Joseph	Substitute	27	97 So. Sixth st.	Clerk.
	55	Arthur C. Smith	"	20	38 Bedford st.	Electrician.
Jan. 29, 1867.	57	George H. W. Tripp	Driver	59	57 Bedford st.	Engine driver.
Aug. 29, 1878.	56	Alonzo V. Jason	Engineer	41	111 S. Seventh st.	Engineer.
April 1, 1889.	59	William C. Kennedy	Driver	29	141 Bedford st.	Wagon driver.
Mar. 25, 1889.	58	Leander Reed	Stoker	47	3 Bay st.	Stoker.



## ZACHARIAH HILLMAN STEAM FIRE ENGINE COMPANY No. 5.

House, corner County and Hillman streets. Engine built by La France Steam Fire Engine Co., Elmira, N. Y.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 7,300 pounds; put into service March 10, 1894. Company organized December 13, 1873.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Dec. 31, 1888.	70	Thomas H. Forbes	Captain	35	121 Cedar st.	Shoemaker.
Dec. 28, 1891.	73	Ernest L. Soule	1st Lieut.	34	254 Maxfield st.	Wood worker.
Feb. 9, 1891.	60	Geo. E. Macomber	2d Lieut.	44	218 North st.	Engineer.
Oct. 1, 1885.	63	Joseph C. Forbes	Clerk	30	201 Cedar st.	Shoemaker.
Dec. 13, 1873	62	Isaiah H. Wilcox	Hoseman	61	506 Acush. ave.	Painter.
May 1, 1876.	64	George H. Chadwick	"	62	354 Kempton st.	"
Sept. 30, 1890.	68	Thomas N. Meyers	"	34	205 Summer st.	Frame maker.
Sept. 30, 1889.	71	Obed S. Cowing	"	33	278 Mill st.	Carpet uphol'r
June 26, 1893.	69	John F. Gifford	"	41	383 Kempton st.	Foreman st.
Feb. 1, 1893.	61	Frank B. Chadwick	"	24	367 Kempton st.	Frame maker. dept.
Oct. 1, 1894.	65	William L. Davis	"	34	106 Chestnut st.	Painter.
Dec. 31, 1894.	66	Charles H. Bowman	"	31	5 North st.	Teamster.
April 29, 1895.	72	Louis H. Almy	Substitute	26	12 Spruce st.	Printer.
April 27, 1896.	67	Edward N. Bennett	"	36	115 Willis st.	Clerk.
Dec. 13, 1873.	74	Martin Blanchard Jr	Engineer	52	Engine house	Engineer.
May 1, 1882.	76	Charles W. Jones	Stoker	42	373 Cottage st.	Wood worker.
Jan. 7, 1876.	75	Benj. F. King, Jr.	Driver	55	Engine house	Hostler.
Jan. 28, 1883.	77	Martin S. Nelson	Wagon driver	39	" "	"

## FREDERICK MACY STEAM FIRE ENGINE COMPANY No. 6.

House on Fourth street, head of Potomska street. Engine built by Manchester Locomotive Works, Manchester, N. H.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 7,100 pounds; put into service November 1, 1882. Company organized October 31, 1882.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Oct. 31, 1882.	135	Frederick S. Nelson	Captain	30	7 Bonney st.	Mason.
Feb. 3, 1890.	131	Charles E. Allen	1st Lieut.	28	Contp. Hall st.	Painter.
Dec. 15, 1892.	121	Charles E. Greene	2d Lieut.	23	204 County st.	Turner.
Oct. 31, 1882.	122	Herbert B. Gardner	Clerk	49	132 Washing- ton st.	Compositor.
Oct. 26, 1886.	130	Edward W. O'Neill	Hoseman	35	30 Thompson st	Glass cutter.
Oct. 31, 1882.	132	Jason L. Ballou	"	51	37 Crapo st	Carpenter.
Oct. 31, 1882.	127	Thomas Wood	"	50	34 Bonney st.	Photographer.
Oct. 31, 1882.	125	Marshall S. Greene	"	42	233 Rivet st.	Mason.
Mar. 27, 1883.	128	Joseph Jackson	"	41	1 Bedford st.	Barber.
Oct. 31, 1882.	133	Charles K. Wood	"	44	35 Crapo st.	Passapartout maker.
June 30, 1891.	123	John F. Rogers	"	29	97 Acushnet av.	Undertaker.
May 31, 1892.	138	Michael Stapleton	"	37	Cove st.	Salesman.
June 26, 1894.	126	James Rock, Jr.	Substitute	24	743 S. Water st.	Clerk.
Jan. 1, 1895.	124	George H. Whelan	"	25	216 County st.	Solderer.
Oct. 31, 1882.	137	Charles G. Taber	Engineer	48	224 County st.	Engineer.
Nov. 24, 1885.	142	Henry M. Mosher	Stoker	48	205 County st.	Press worker.
Oct. 31, 1882.	134	Frank A. C. Greene	Eng. driver	31	87 Acushnet av.	Engine driver.
Oct. 31, 1882.	136	N. Herbert Greene	Hose "	40	288 Fourth st.	Hose driver.

## STEAM FIRE ENGINE COMPANY No. 7.

House on Durfee street. Engine built by the Manchester Locomotive Works, Manchester, N. H.; capacity, 500 gallons per minute; weight of engine as drawn to fires, 7,000 pounds; put into service September 1, 1890. Company organized September 1, 1890.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Sept. 1, 1890.	197	S. C. Lowe	Captain	39	412 County st.	Merchant.
" "	204	E. H. Booth	1st Lieut.	46	35 Durfee st.	Car inspector.
" "	206	J. H. Ryan	2d Lieut.	38	565 Cottage st.	Contractor.
" "	205	M. C. Dahill	Clerk	37	28 Richmond st	Shoemaker.
" "	198	Thos. Mack	Hoseman	34	W. Elm st.	Clerk.
" "	208	C. A. Galligan	"	29		Merchant.
" "	207	J. D. Manscau	"	31	30 Durfee st.	Clerk.
" "	203	Geo. A. Bosworth	"	33	20 Richmond st	Contractor.
Nov. 11, 1890.	211	C. L. Dunham	"	29	County st.	Merchant.
Jan. 3, 1893.	195	J. N. O'Brien	"	34	567 Cottage st.	"
July 24, 1890.	210	J. H. Whittaker	"	31	542 Cedar st.	Clerk.
June 11, 1894.	212	Thos. Lowe	"	50	Shawmut ave.	Plumber.
Dec. 2, 1894.	196	Wm. Simister	Substitute	30	44 Durfee st.	Merchant.
July 1, 1896.	209	Chas. Daley	"		Cedar Grove st	Plumber.
Sept. 1, 1890.	199	James R. Goddard	Engineer	38	Cottage st.	Engineer.
" "	202	Andrew Tripp	Stoker	44	1 Durfee st.	Shoemaker.
" "	200	Wm. H. H. King	Driver	32	8 Mt. Pleas'nt st	Hostler.
" "	201	Ed. H. Coggeshall	Reel driver	26	1 Durfee st.	"

## STEAM FIRE ENGINE COMPANY No. 8.

House, Acushnet avenue and Davis street. Engine built by La France Steam Fire Engine Co., Elmira, N. Y.; capacity, 500 gallons per minute; put into service December 1, 1894. Company organized December 1, 1894.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Dec. 1, 1894.	246	Robert McWhinnie	Captain	38	Church st.	Slasher tender.
" "	242	David C. McWhinnie	1st Lieut.	32	Ashland st.	Mechanic.
" "	250	Antonio M. Lemos	2d Lieut.	32	Davis st.	"
" "	249	Fred S. Webster	Clerk	25	1110 Acush. av.	"
" "	245	Thomas S. Riley	Hoseman	28	98 Austin st.	Clerk.
" "	241	James Slater	"	45	678 Purchase st	Merchant.
" "	244	Michael McDonnell	"	29	199 Austin st.	"
" "	247	Edward L. Hughes	"	29	Acushnet ave.	Mechanic.
" "	248	Nicholas Whalen	"	30	20 Belleville av	Clerk.
" "	251	Daniel S. Considine	"	32	Park Hotel.	Merchant.
Nov. 10, 1895.	253	Michael J. Sullivan	"	37	837 Purchase st	Carpenter.
Jan. 21, 1896.	252	John Hilton	"	33	Acushnet ave.	Furniture mover.
May 1, 1896.	243	John H. Finnell	Substitute	29	" "	Merchant.
May 1, 1896.	254	John S. Francis	"	26	190 Coffin ave.	Second hand, woolen mill.
Dec. 1, 1894.	240	John Watkinson	Stoker	32	441 Pleasant st.	Clerk.
" "	237	William R. Moore	Engineer	33	Dean & No. Front	Engineer.
" "	238	George H. Cook	Eng. driver	35	254 Coffin ave.	Driver.
" "	239	Squire A. Gifford	Wagon driver	40	Acushnet ave.	"

## HANCOCK ENGINE COMPANY No. 9.

House located at Acushnet. Engine built by John Agnew of Philadelphia, in 1843. Engine removed to Acushnet, January 18, 1861, and a company was organized to man her at that time. Company re-organized December 14, 1878.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
May 7, 1883.	147	Francis P. Washburn	Captain	53	Acushnet ave.	Carpenter.
Dec. 14, 1878.	160	Herbert M. Spooner	1st Lieut.	37	" "	Box maker.
Sept. 3, 1883.	151	John G. Whalon	2d Lieut.	35	" "	"
Dec. 14, 1878.	146	John A. Russell	Clerk	46	" "	Farmer.
May 1, 1882	159	Israel H. Peckham	Suction hoseman	54	" "	Blacksmith.
Dec. 14, 1878.	158	Lemuel A. Washburn	Suction hoseman	58	" "	Teamster.
Dec. 4, 1882.	164	George W. Hawes	Suction hoseman	43	" "	"
Dec. 14, 1878.	153	William T. Gifford	Leading hoseman	50	Mill road	Farmer.
May 3, 1886.	155	George H. Gifford	Leading hoseman	25	Acushnet ave.	Carpenter.
Dec. 14, 1878.	154	Joseph W. Spooner	Leading hoseman	44	" "	Teamster,
Dec. 14, 1878.	166	Eli W. Reed	Leading hoseman	58	Tarkiln Hill rd.	"
Dec. 14, 1878.	152	James A. Wilber	Leading hoseman	51	Mill road	Rope maker.
Feb. 4, 1889.	161	William P. Reed	Steward	44	Tarkiln Hill rd.	Teamster.
Dec. 6, 1886	145	John F. Parker	Brakeman	27	Main st.	Painter.
	150	Allen G. Briggs	"	31	Acushnet ave.	Blacksmith.
Dec. 14, 1878.	149	John Sylvia	"	57	Belleville road	Shoemaker.
Dec. 14, 1878.	148	And'w B. Grinnell, Jr	"	57	Acushnet ave.	Clerk.
Dec. 14, 1878.	165	Allen Russell, Jr.	"	39	" "	Farmer.
Jan. 7, 1889.	163	Nathan C. Briggs	"	62	" "	Carpenter.
May 31, 1892.	157	Walter H. Darling	"	31	Main st.	Box maker.
Sept. 25, 1893.	162	Fredk W. Bowles	"	31	Acushnet ave.	Sawyer.
May 28, 1894.	156	Henry E. Reed	"	29	Mill road	Bricklayer.
Sept. 16, 1895.		Edward F. Davis	Substitute	30	Tarkiln Hill rd.	Laborer.
May 4, 1896.		Edgar W. Darling	"	21	Acushnet ave.	Box maker.

## HOOK AND LADDER COMPANY No. 1.

House, corner of Purchase street and Mechanics lane. Carriage built by LaFrance Steam Fire Engine Co., Elmira, N. Y.; put into commission April 29, 1895.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Jan. 5, 1884.	101	Frank Spooner	Captain	41	West North st.	Painter.
Jan. 27, 1890.	104	Philip C. Russell	1st Lieut.	33	4 Walnut st.	Stereotyper.
July 25, 1890.	107	Geo. A. Caswell	2d Lieut.	26	58 N. Sixth st.	Blacksmith.
Mar. 30, 1874.	89	Chas. E. Pierce	Clerk	49	62 Thomas st.	Printer.
Jan. 30, 1870.	87	Lysander W. Davis	Ladderm'n	61	106 Chestnut st.	Carpenter.
June 24, 1883.	105	Edward D. Francis	Axeman	41	86 Kempton st.	Shoemaker.
June 24, 1889.	91	William L. Fletcher	Ladderm'n	31	38 Cedar st.	Grinder.
Nov. 29, 1886.	103	Alfred M. Gifford	"	33	5 North st.	Teamster.
Aug. 5, 1865.	102	Chas. J. Johnson	"	65	547 Cottage st.	Sparmaker.
Jan. 1, 1895.	98	Edw'd C. Negus, Jr.	"	24	72 Walden st.	Clerk.
Aug. 7, 1863.	86	Philip M. Tripp	"	58	Arnold st.	Teamster.
Nov. 30, 1896.	100	Chas. W. Vining	"	37	17 Fourth st.	Painter.
Apr. 27, 1896.	88	Harry F. Chase	Substitute	24	197 Chancery st	Teamster.
May 25, 1896.	106	Albert Clark	"	24	125 N. Second.	Teamster.
		Geo. S. Allen	Driver	35	303 Acush. av.	
		Isaac R. Allen	Tillerman	40	120 High st.	



## HOOK AND LADDER COMPANY No. 2.

House on Weld street. Carriage built by LaFrance Steam Fire Engine Co., Elmira, N. Y. ; put into commission August 30, 1888. Present company organized September, 1888.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Sept. 1, 1888.	175	Martin H. Sullivan	Captain	38	78 North st.	Carpenter.
Sept. 8, 1893.	176	Edward M. Murphy	1st Lieut.	31	834 County st.	Clerk.
Sept. 1, 1892.	174	Charles H. McCarty	2d Lieut.	25	State & Clark.	Driver.
Sept. 1, 1888.	180	Peter F. Sullivan	Clerk	36	869 County st.	Grocer.
" "	179	Wm. McCann	Ladderm'n	35	200 No. Front.	Peddler.
" "	171	Henry W. Kenyon	"	55	910 Acush. av.	
" "	177	John S. Harrington	Axeman	37	Weld & Pleas.	Driver.
" "	178	David Warren	"	39	257 State st.	Stableman.
May 1, 1890.	184	Frank R. Pease	Climber	38	923 Acush. av.	Druggist.
Mar. 1, 1892.	173	William Sellicks	Poleman	27	136 No. Front.	Driver.
Sept. 1, 1892.	182	Henry Lenhart	Ladderm'n	24	Marvin st.	Clerk.
Dec. 18, 1894.	181	John Conway	"	21	136 No. Front.	Plumber.
Oct. 1, 1895.	183	John E. Murphy	Substitute	25	209 Ced. Grove	Clerk.
May 1, 1896.	172	James H. Mahoney	"	20	County & Pen.	Plumber.
Oct. 9, 1894.	108	Geo. H. Nickerson	Driver	28	932 Acush. av	Hostler.
Sept 17, 1895.	215	Jerem'h T. Haggerty	Tillerman	27	938 Acush. av.	Tillerman.

## HOOK AND LADDER COMPANY No. 3.

House on Fourth street, head of Potomska. Carriage built by La France Steam Fire Engine Co., Elmira, N. Y.; put into commission November 1, 1891. Company organized November 1, 1891.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Nov. 1, 1891.	229	George H. Baylies	Captain	24	279 County st.	Painter.
Nov. 1, 1891.	221	Henry E. Chase	1st Lieut.	32	161 Grinnell st.	Painter.
Feb. 1, 1892.	225	Step'n J. Cassidy, Jr.	2d Lieut.	30	273 Fourth st.	Painter.
Nov. 1, 1891.	219	Daniel E. Nelson	Clerk	32	314 Second st.	Mason.
Nov. 1, 1891.	222	Henry R. Lindsey	Axeman	34	211 County st.	Carpenter.
Feb. 14, 1894.	223	Edw'd R. Hathaway	"	23	208 County st.	Shoemaker.
June 5, 1893.	227	Manuel J. Francis	Climber	31	257 Second st.	Clerk.
Dec. 5, 1892.	230	Earnest F. McCarty	"	28	65 Acush. av.	Blacksmith.
Nov. 1, 1891.	218	John O'Neil	Poleman	33	30 Thompson	Glasscutter.
Nov. 1, 1891.	226	Charles B. Church	"	25	256 Fourth st.	Clerk.
Nov. 1, 1891.	220	John J. Meaney	Ladderm'n	27	6 W. French a.	Carpenter.
Nov. 1, 1891.	224	James R. Gifford	"	34	15 Columbia st.	Lineman.
Jan. 7, 1895.	228	Nelson L. Pike	Substitute	31	Rural Cem.	Sexton.
Feb. 3, 1896.	217	Antone Viera	"	23	267 Fourth st.	Clerk.
Nov. 1, 1892.	233	Henry J. Marshall	Tillerman	32	Engine house	
Aug. 1, 1892.	232	John W. Donaghy	Driver	30	Engine house	

## CHEMICAL ENGINE COMPANY No. 1.

House, corner of Purchase street and Mechanics lane. Wagon built by Charles F. Halloway, Baltimore, Md. ; put into commission July 1, 1895. Company organized December 31, 1871.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Dec. 1, 1889.	80	Daniel W. Howland	Captain	60	219 Kempton st	Blacksmith,
Dec. 1, 1889.	81	John B. Oliver	Clerk	32	263 Cottage st.	Blacksmith.
June 3, 1895.	82	Charles Thomas	Hoseman	36	39 Newton st.	Carpenter.
	83	John P. Thompson	"	36	43 Sixth st.	Painter.

## HOSE COMPANY No. 2.

House, corner of Weld and Bowditch streets. Wagon built by Brownell, Ashley & Co., New Bedford; put into commission December 1, 1888. Company organized December 3, 1888.

DATE OF JOINING.	No. of Badge.	NAME.	RANK.	AGE.	RESIDENCE.	OCCUPATION.
Dec. 3, 1888.	186	Mark Watson	Captain	37	357 Pleasant st.	Merchant.
" "	187	Stephen L. Finnell	1st Lieut.	37	7 Reynolds st.	Salesman.
" "	188	Bartholomew P. Fury	2d Lieut.	32	413 Purchase	Salesman.
" "	192	George C. Hewins	Clerk	25	762 County st.	Engineer.
Apr. 16, 1890.	189	William Woolfenden	Hoseman	27	445 Pleasant st.	Barber.
Aug. 11, 1893.	190	John Watson	"	38	6 Ashland st.	Clerk.
Sept. 12, 1893.	191	Arthur McDonald	"	25	271 Coggeshall	Copperworker.
April 2, 1895.	193	William Moore	Substitute	22	8 Weld st.	Salesman.
Dec. 3, 1888.	194	Reuben Taber	Driver	41	921 Acush. av.	Driver.

## NEW BEDFORD PROTECTING SOCIETY.

President, Charles S. Kelley; 1st Director, William A. Robinson; 2d Director, Charles H. Lawton; 3d Director, Edward T. Pierce; 4th Director, Charles M. Haskell; 5th Director Edmund F. Maxfield; 6th Director, Edmund Wood; 7th Director, John H. Lowe; 8th Director, John E. Gibbs. Secretary and Treasurer, Edmond L. Wilde,

Francis T. Akin,  
Gideon Allen, Jr.,  
George H. H. Allen,  
James H. Bamford,  
William Bamford,  
Lewis E. Bentley,  
George W. Bennett,  
O. Frank Bly,  
Standish Bourne,  
Byron F. Card,  
Charles A. Case,  
R. C. P. Coggeshall,  
Clifton H. Cornish,  
Henry C. Denison,  
Ernest A. Dunham,  
Fred C. Dunham,  
Joseph Dias,  
John Eldridge, Jr.,  
James P. Francis,  
Edward R. Gardner,  
John E. Gibbs,  
Frank H. Gifford,  
Charles H. Gifford,  
Thomas J. Gifford,  
A. W. Hadley,  
Charles H. Holden,  
John J. Howland,  
Edgar B. Hammond,  
Henry F. Hammond,  
H. S. Hutchinson,  
Henry Howard,  
Thomas H. Knowles,  
G. D. Kingman,

Edgar R. Lewis,  
Wm. J. Lewis,  
Philander F. Manchester,  
Frederick B. Macy,  
Willard Nye, Jr.,  
Otis N. Pierce,  
William F. Potter,  
Edward F. Penney,  
William H. Pitman,  
Charles L. Paine,  
Stephen D. Peirce,  
George A. Phillips,  
William F. Read,  
Morgan Rotch,  
Arthur E. Robbins,  
Louis H. Richardson,  
Gardner T. Sanford,  
R. W. Swift,  
Leander H. Swift,  
S. Edward Shaw,  
Andrew Snow, Jr.,  
Robert Snow,  
Frederic Taber,  
William T. Taylor,  
Alfred Thornton,  
Alfred G. Wilbor,  
William Whitehead,  
Horace Wood,  
Frederic A. Washburn,  
Thomas F. Wood,  
William R. West,  
Mark T. Vincent.

## Fire Alarms, Losses and Insurance, for 1896.

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The loss by fire for the year ending December 31, 1896, was \$78,909.83. Amount of insurance, \$705,800. Number of bell alarms, 47. Number of still and telephone alarms, 97. Total alarms, 144.

Jan. 1, 4.50 P. M. (Still.) Chimney fire in house on Pleasant street, near Union, owned by F. B. Greene. Responded to by men from Central Station. No loss.

Jan. 2, 11.20 A. M. (Still.) Chimney fire in dwelling owned and occupied by Eliot D. Stetson, corner Grove and Cottage streets. Responded to by men from No. 4 Station. No loss.

Jan. 2, 7.45 P. M. (Still.) Lamp exploded in dwelling owned and occupied by Robert Channock, 883 South Water street. Responded to by men from No. 6 Station. Loss on building, \$55; insurance, \$2,000.

Jan. 4, 3.40 P. M. (Still.) Chimney fire, 35 Arnold street, owned and occupied by Francis Stone. Responded to by men from No. 4 Station. No loss.

Jan. 7, 8 A. M. (Still.) Chimney fire, No. 98 Hawthorn street, owned and occupied by A. Grinnell. Responded to by men from No. 4 Station. No loss.

Jan. 7, 2.30 P. M. (Still.) Chimney fire, No. 4 Borden street, owned by John Dunn and occupied by tenants. Responded to by men from No. 4 Station. No loss.

Jan. 7, 6.55 A. M. (Still.) Chimney fire in house corner of Middle and Sixth streets, owned and occupied by Mrs. John M. Hathaway. Responded to by men from Central Station. No loss.

Jan. 9, 2 P. M. (Still.) Fire in house No. 155 Cottage street, owned and occupied by Mrs. Ruth L. Smith; cause, defective chimney. Responded to by men from No. 4 Station. No loss.

Jan. 10, 8 A. M. (Still.) Chimney fire, No. 33 Fifth street, owned and occupied by Miss Mary Tallman. Responded to by men from No. 4 Station. No loss.



Jan. 12, 5.30 A. M. (Still.) Chimney fire in house 156 Chancery street, owned by William A. Lowe and occupied by Frank Kiel. Responded to by men from No. 5 Station. Loss on building, \$30; insurance, \$1,000.

Jan. 16, 10 A. M. (Still.) Explosives in drug store, corner South Water and Delano streets, owned by Poisson Bros. and occupied by Pease & Dandurand.

Jan. 16, 7.45 A. M. (Still.) Chimney fire, No. 26 Crapo street, owned and occupied by Jethro Studley. Responded to by men from No. 6 Station. No loss.

Jan. 16, 4.30 P. M. (Still.) Fire in dwelling-house, corner South and Second streets, owned and occupied by Dr. Palmer. Cause unknown. Responded to by men from No. 6 Station. No loss.

Jan. 23, 8.20 P. M. (Still.) Fire in dwelling 279 Acushnet avenue, owned and occupied by Charles S. Wing. Cause, rats and matches. Responded to by men from Central Station. Loss on building, \$14; insurance, \$1,200.

Jan. 26, 4 A. M. (Still.) Fire in dwelling-house, 437 Kempton street, owned by John H. Pierce and occupied by John B. Oliver, Jr., caused by sparks from stove. Responded to by men from No. 5 Station. No loss.

Jan. 27, 12.40 P. M. (Still.) Fire in dwelling-house on Walnut street, near Fifth street, owned and occupied by N. P. Hayes. Cause, hot ashes in barrel. Responded to by men from Central and No. 4 Stations. Loss on building, \$10; insurance, \$3,500.

Feb. 4, 12.40 A. M. Box 97. Steam in Whitman Mfg. Co., caused by bursting of feed pipe. Responded to by Engines Nos. 1, 5, 7 and 8, Hooks & Ladders Nos. 1 and 2, Hose Nos. 1 and 2. No loss.

Feb. 8, 8.30 P. M. Box 3. Fire in woodshed, corner Acushnet avenue and Tarkiln Hill road, owned by A. Harrington, caused by hot ashes in barrel. Responded to by Hancock Co. No. 9. Loss on building, \$30; insurance, \$400.

Feb. 9, 7.15 P. M. (Still.) Fire in dwelling, 40 Crapo street, owned by Mary G. DaTerra, and occupied by Joseph Sahl, caused by explosion of lamp. Responded to by men from No. 6 Station. Loss on contents, \$189; insurance, \$1,000.

Feb. 10, 1.30 P. M. Box 29. Fire in dwelling-house, corner Cottage and Arnold streets, owned and occupied by B. H. Waite. Cause, defective chimney. Companies responding—Engines 4 and 5, Hook & Ladder No. 1, Hose No. 1. Loss on building, \$360; insurance, \$6,000; contents, \$70; insurance, \$1,500.

Feb. 14, 10.30 A. M. Box 57. Fire in dwelling-house, 69 Mosher street, owned and occupied by Wm. Sharples. Cause, children playing with matches. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3 and Hose No. 1. Loss on building, \$5; insurance, \$1,000.

Feb. 17, 1.40 A. M. Box 59. Fire in dwelling at Winterville, owned by John Brazier and occupied by Antone Cowser. Cause, unknown. Responded to by Engines Nos. 4 and 6, Hook & Ladder No. 3 and Hose No. 1. Loss on building, \$600; insurance, \$600; contents, \$25; no insurance.

Feb. 17, 1.30 P. M. (Still.) Chimney fire, corner Second and Madison streets, owned by Henry Holcomb and occupied by Mrs. Smith. Responded to by men from No. 4 Station. No loss.

Feb. 17, 3 P. M. (Still.) Chimney fire in dwelling-house, 77 Bedford street, owned by P. Cornell and occupied by Mrs. Clement Nye. Responded to by men from No. 4 Station. No loss.

Feb. 18, 10.30 P. M. Box 127. Fire in office, Purchase street, owned by Lee estate and occupied by Dr. Thuot, caused by explosion of lamp. Responded to by Engines Nos. 1 and 7, Hook & Ladder No. 2, Hose Nos. 1 and 2. No loss.

Feb. 20, 7.40 A. M. (Still.) Chimney fire in dwelling-house owned by Mrs. Leonard and occupied as a kindergarten school. Responded to by men from No. 4 Station. No loss.

Feb. 20, 9 A. M. (Still.) Fire in dwelling-house, No. 4 Clinton street, owned and occupied by Benjamin Wilcox, caused by overheated furnace-pipe. Responded to by men from No. 4 Station. Loss on building, \$10; insurance, \$1,500.

Feb. 22, 7.30 P. M. (Still.) Chimney fire in house on Pleasant street, near Union, owned by Francis B. Greene and occupied by Mrs. H. B. Cooke. Responded to by men from No. 4 Station. No loss.

Feb. 24, 6.45 P. M. (Still.) Fire in house, Moorlands Terrace, owned and occupied by Charles M. Hussey, caused by burning rubbish. Responded to by men from No. 4 Station. No loss.

March 6, 1.30 P. M. (Still.) Fire in house No. 96 So. Sixth street, owned by heirs of John H. Jennifer and occupied by Antone Vincent. Cause, defective chimney. Responded to by men from No. 4 Station. No loss.

March 12, 5.45 P. M. (Still.) Fire in grocery store, corner Acushnet avenue and Russell streets, owned and occupied by the Acushnet Co-operative Association, caused by lamp used in heating office. Responded to by men from No. 4 Station. Loss on building, \$29.89; insurance, \$3,000.

March 13, 7.50 P. M. (Still.) Chimney fire in house on Lincoln street, near Union, owned and occupied by Mrs. E. H. Allen. Responded to by men from No. 4 Station. No loss.

March 13, 9.30 P. M. (Still.) Fire in lumber, Pease court, owned by Wm. A. Pease. Cause, incendiary. Responded to by men from No. 5 Station.

March 14, 2 P. M. (Still.) Fire in house on Pleasant street, owned by heirs of J. D. Thompson and occupied by Dr. C. A. Johnson. Cause, sparks. Responded to by men from Central Station. No loss.

March 17, 11 P. M. (Still.) Smoke in barber shop on William street, owned by B. H. Waite and occupied by J. Bouchard. Smoke from stove. Responded to by men from Central Station.

March 18, 5.15 A. M. Box 35. Fire in green-house, South Sixth street, owned and occupied by Edward S. Haskell. Caught from boiler. Companies responding—Engines Nos. 2 and 4, Hook & Ladder No. 1 and Hose No. 1. Loss on building, \$350; insurance, \$600. Loss on contents, \$300; insurance, \$300.

March 26, 6.30 A. M. (Still.) Chimney fire in house on Franklin street, owned by Jenney estate and occupied by James K. Almy. Responded to by men from No. 1 Station. No loss.

March 28, 12.10 P. M. (Still.) Fire in hall on Acushnet avenue, owned by Clark Green and occupied by the Salvation Army. Cause, hot stove. Responded to by men from Central Station.

March 29, 2.10 A. M. (Still.) Chimney fire in building on William street and occupied by J. Bouchard as a barber shop. Responded to by men from Central Station. No loss.

April 1, 8.58 A. M. Box 31. Burning tar, old Standard building. Responded to by Engines Nos. 2 and 4, Hook & Ladder No. 1, Hose No. 1.

April 4, 12.15 P. M. (Still.) Fire in house on Pleasant street, near Union, owned by heirs of J. D. Thompson and occupied by Dr. C. Johnson. Responded to by men from Central Station.

April 4, 4.45 P. M. (Still.) Fire in house, corner South and First streets, owned by James Delano. Cause, smoking sausages. Responded to by men from No. 4 Station.

April 4, 7.30 P. M. (Still.) Chimney fire in house, corner Hawthorn and Ash streets, owned and occupied by J. B. Francis. Responded to by men from No. 4 Station.

April 4, 9.30 A. M. (Still.) Fire in barn on Austin street, owned by McDonnell Bros. Cause, hot ashes. Responded to by men from No. 7 Station.

April 5, 11.54 P. M. Box 227. Fire on schooner Charles A Briggs, owned by Capt. J. B. Phillips and others. Cause, sparks from galley. Responded to by Engines Nos. 1, 2 and 5, Hook & Ladder No. 1, and Hose No. 1. No loss.

April 7, 2 A. M. (Still.) Fire in house on Cottage, near Bedford, owned and occupied by Josiah Eaton. Cause, yard rubbish. Responded to by men from No. 4 Station. No loss.

April 8, 5.02 P. M. Box 17. Fire in house No. 4 Maxfield street, owned by Horatio Hathaway and occupied by Mrs. Mary Handy. Cause, children playing with matches. Companies responding—Engines Nos. 1 and 5, Hook & Ladder No. 1, Hose No. 1. Loss on building, \$100; insurance, \$1,500. Loss on contents, \$50; no insurance.

April 9, 2.10 A. M. (Still.) Chimney fire in house on North Second street, owned by Macomber, Homer & Hawes and occupied by M. Weik. Responded to by men from Central Station. Loss on building, \$191; insurance, \$3,000; contents, \$68.30; insurance, \$1,600.

April 11, 6 P. M. Box No. 36. Fire in house, corner of Walnut and First streets, owned by H. H. Crapo and occupied by A. Frates. Companies responding—Engines Nos. 2 and 4, Hook & Ladder No. 1, Hose No. 1. Loss on building, \$126.60; insurance, \$2,000; contents, \$25; no insurance.

April 13, 9.50 A. M. Box 34. Fire in house on South First street, owned by John Green and occupied by Joseph Richards. Cause, smoking in bed. Responded to by Engines Nos. 2 and 4, Hook & Ladder No. 1 and Hose No. 1. No loss.

April 13, 10.45 A. M. (Still.) Bush fire on Kempton street. Responded to by Chemical No. 1. No loss.

April 14, 11 A. M. (Still.) Fire in house, 9 Eighth street, owned by the Unitarian Society and occupied by Dr. Allen. Caused by sparks. Responded to by men from Central Station. Loss on building, \$80; insurance, \$2,500.

April 14, P. M. (Still.) Grass fire near Rotch Mill, set by boys. Responded to by men from No. 6 Station. No loss.

April 20, A. M. Box 129. Brush fire on Purchase street, near Coffin avenue, set by boys. Companies responding—Engines 1 and 8, Hook & Ladder No. 2, Hose Nos. 1 and 2. No loss.

April 20, 2.30 P. M. (Still.) Chimney fire in house No. 171 Kempton street, owned by estate of Job Sherman. Responded to by men from Central Station. No loss.

April 22. (Still.) Chimney fire in house on Hawthorn street, owned and occupied by Walter Clifford. Responded to by men from No. 4 Station. No loss.

April 27, A. M. (Still.) Chimney fire in house on Fifth street, occupied by Dr. Leonard. Responded to by men from No. 4 Station. No loss.

May 1, 1.30 P. M. Bush fire, West Maxfield street. Responded to by men from No. 5 Station. No loss.

May 2, 11.02 A. M. Box 14 and Box 92. Fire in house rear of Acushnet avenue, near Pope street. Responded to by Engines 1, 5 and 7, Hook & Ladder No. 1, and Hose No. 1. Loss on building, \$50; insurance, \$200.

May 5, 3 A. M. Box 38. Fire in house 62 Allen street, owned by Mrs. Charles H. Howland and occupied by Mrs. Charles H. Howland and Rev. C. F. Hersey. Responded to by Engines 4 and 6, Hook & Ladder No. 3, and Hose No. 1. Loss on building, \$2,385; insurance, \$3,000; contents, Charles H. Howland, \$785; insurance, \$1,200; Rev. C. F. Hersey, \$1,000; insurance, \$1,000.

May 8, A. M. Box 24. Fire in carpenter shop, rear of Kempton street, owned by Wm. Gifford, 2d. Companies responding—Engines Nos. 5 and 7, Hook & Ladder No. 1, and Hose No. 1. No loss.

May 10, A. M. (Still.) Smoke in house on Sixth street, owned and occupied by Dr. A. M. Pierce. Responded to by men from No. 4 Station.

May 13. (Still.) Fire in woods on Allen street. Responded to by Chemical No. 1. No loss.

May 13, P. M. (Still.) Fire in house 28 Wing street, occupied by Mrs. Mary Josephs. Cause, hot coal in pan. Responded to by men from No. 4 Station.

May 17, 8.30 A. M. Box 58. Fire in house on South Water, near Cove street, owned and occupied by Joseph Mayo. Cause, kerosene stove. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. Loss on building, \$20; insurance, \$900.

May 19, P. M. (Still.) Fire in house No. 45 Wing street, occupied by Andrew Brown. Responded to by men from No. 4 Station. No loss.

May 20, P. M. (Still.) Chimney fire in house on Cottage street, occupied by R. C. P. Coggeshall. Responded to by Chemical No. 1.

May 26, 3.17 P. M. Box 25. 3.24 P. M. Box 24. Fire on Kempton street, near Cedar, in buildings owned by Edward Johnson and S. P. Richmond, occupied by Wm. Goldsmith, Louis Rheille, Wm. Johnson, Samuel Goldberg, Louis Goodman, Mrs. L. Douglass, Mrs. John Johnson, Wm. Smith, Sylvester Wilson, A. H. Allen and Mrs. Simpson. Cause, naphtha explosion. Companies responding—Box 25,



Engines 2 and 5, Hook & Ladder No. 1, Chemical No. 1; Box 24, Engines Nos. 4 and 7, Hook & Ladder No. 2, and Hose No. 2. Loss on building—S. P. Richmond, \$600; insurance, \$2,200; Edw. Johnson, \$1,220; insurance, \$4,000; contents, \$1,950; no insurance.

May 29, P. M. (Still.) Fire in house 161 County street, occupied by A. F. Lincoln. Responded to by men from No. 6 Station.

May 30. Box 58. Fire in house on South Water street, south of Gifford street. Cause, explosion of lamp. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

June 17, 8.25 A. M. Box 124. Fire in dwelling-house on Acushnet avenue, north of Sawyer, owned and occupied by Hugh Murray. Set by boys. Companies responding—Engines Nos. 1 and 8, Hook & Ladder No. 2, Hose No. 2, and Chemical No. 1. No loss.

June 19, 8 A. M. (Still.) Smoke caused by back draft in store on Purchase street, near High, occupied by Geo. H. Milliken. Responded to by men from Central Station.

June 21, 4.30 P. M. (Still.) Burning rags in dwelling-house on South Front street, owned by estate of H. Holcomb. Responded to by men from No. 4 Station.

June 24, 8.30 A. M. (Still.) Smoke from chimney in drug store, corner Union and Purchase streets, owned and occupied by C. H. & H. A. Lawton. Responded to by men from Central Station.

June 30. (Still.) Fire in dwelling-house on Purchase street, south of No. 1 Station, owned and occupied by Bradford Smith. Cause, fire-cracker. Responded to by men from No. 1 Station. No loss.

July 2, 9.30 A. M. (Still.) Fire in dwelling-house, corner of South and First streets, occupied by Antone Bentara. Cause, children playing with fire. Responded to by men from No. 6 Station.

July 3, 9.05 P. M. Box 28. Fire in dwelling-house 183 Court street, owned by Jane M. Davis and occupied by Mary Ann Smith. Cause, explosion of lamp. Companies responding—Engines 2 and 5, Hook & Ladder 1, Hose 1, Chemical 1. Loss on building, \$50; insurance, \$50; contents, \$50; no insurance.

July 4, 12.30 A. M. Fire in Chinese laundry, Market street, owned by Mrs. David P. Ward and occupied by Chinamen. Cause, fireworks. Responded to by men from Central Station.

July 4, 4 A. M. (Still.) Fire in blacksmith shop, Mechanics lane, owned and occupied by E. M. Durfee. Cause, fireworks. Responded to by men from Central Station. No loss.



July 4, 5 A. M. (Still.) Awning on Purchase street, building owned by Wm. A. Read and occupied by Mrs. H. H. Noonning. Cause, fireworks. Responded to by men from Central Station. No loss.

July 6, 5.20 P. M. Box 26. Fire in dwelling-house, North Second street, near Middle street, owned by Mrs. Sullivan and occupied by Mrs. Hannah Warren. Cause, boys throwing matches in window. Companies responding—Engines Nos. 1, 2 and 5, Hook & Ladder No. 1, Chemical No. 1. No loss.

July 17, 5.30 P. M. (Still.) Chimney fire 39 Fifth street, owned and occupied by B. Penniman. Responded to by men from No. 4 Station. No loss.

July 17, 7 P. M. (Still.) Chimney fire 39 Fifth street, owned and occupied by B. Penniman. Responded to by men from No. 4 Station.

July 18, P. M. (Still.) Fire in store, corner of Campbell and Purchase streets, owned by C. H. Waite and occupied by Wm. Chappell. Cause, overheated lamp. Responded to by men from Central Station. No loss.

July 19, 12.45 P. M. Box 3. Wood fire, Tarkiln Hill road, owned by G. F. Bartlett. Responded to by Hancock No. 9. No loss.

July 19, 2 P. M. Box 26. Fire in house, 96 North Second street, owned by Ludwig Rabe. Cause, children playing with matches. Companies responding—Engines 1, 2 and 5, Hook & Ladder No. 1, Chemical No. 1. Loss on building, \$55; insurance, \$1,500.

July 30, P. M. (Still.) Smoke in store, Second street, occupied by J. L. Humphrey. Responded to by men from Central Station. No loss.

July 31, 12 M. (Still.) Curtain fire, house 509 Purchase street, occupied by Peter Letteno. Responded to by men from No. 1 Station. No loss.

Aug. 3, 1 P. M. (Still.) Fire in house on Shawmut avenue, owned by H. A. Holcomb and occupied by Henry White. Cause, sparks from chimney. Responded to by Engine No. 9. Loss on building, \$25; contents, \$75; no insurance.

Aug. 4, 4 P. M. Box 5. Fire in ice houses at Turner's Pond, owned by estate of Simeon Hawes. Cause, incendiary. Responded to by Engine No. 7. Loss on building, \$4,000; insurance, \$2,500; contents, \$4,000; no insurance.

Aug. 13, 6.03 A. M. Box 227. Fire in building on Fish Island, owned and occupied by David Duff & Son. Cause, sparks from boiler. Companies responding—Engines Nos. 1, 2 and 5, Hook & Ladder No. 1, Chemical No. 1. No loss.

Aug. 17, 8.15 P. M. (Still.) Chimney fire in building corner Pleasant and Middle streets, owned by estate of Wm. Cronin and occupied by Dr. Sullivan. Responded to by Chemical No. 1. No loss.

Aug. 21, 12.50 P. M. (Still.) Bush fire on Kempton street. Responded to by Chemical No. 1. No loss.

Sept. 4, 4.45 P. M. Box 58. Dwelling-house, No. 924 South Water street, owned and occupied by D. A. Roy. Cause, children and matches. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

Sept. 10, 4.20 P. M. (Still.) Chimney fire in dwelling-house, corner County and South streets, owned and occupied by Rhoda Gifford. Responded to by men from No. 4 Station. No loss.

Sept. 14, 7.15 P. M. Chimney fire in stable corner of Second and Spring streets, owned and occupied by James A. Jay. Responded to by Chemical No. 1. No loss.

Sept. 17, 12.15 P. M. Box 38. Call for assistance from Nonquitt. Responded to by Engines No. 4 and Chemical No. 1.

Sept. 21, 12.45 P. M. (Still.) Bush fire on Kempton street, on land owned by C. T. Edwards. Responded to by Chemical No. 1. No loss.

Sept. 19, 6.35 A. M. Box 91. Fire in cotton shed Bennett mill. Cause, lightning. Responded to by Engines Nos. 1, 5, 7 and 8, Hook & Ladder Nos. 1 and 2, Hose No. 2, Chemical No. 1. Loss on building, \$5,200; insurance \$14,000; contents, \$48,000; insurance, \$100,000.

Sept. 19, 7.45 P. M. Box 21. Fire in foundry corner North and Water streets, owned and occupied by A. Swift. Cause, lightning. Companies responding—Engines Nos. 1, 2 and 5, Hook & Ladder No. 1, Chemical No. 1. Loss on building, \$450; insurance, \$500; contents, \$225; insurance, \$300.

Sept. 20, 6.15 P. M. (Still.) Chimney fire in dwelling-house, corner Arnold and County streets, owned and occupied by Mrs. Ward M. Parker. Responded to by Chemical No. 1. No loss.

Sept. 25, 6.30 P. M. (Still.) Chimney fire in bakery, 55 Mechanics lane, owned and occupied by A. L. Zoeggele. Responded to by Chemical No. 1. No loss.

Sept. 30, 1.13 P. M. Box 36. Fire in house 45 School street, owned by Michael Weik and occupied by Robert Jones. Responded to by Engines Nos. 2 and 4, Hook & Ladder No. 1, Chemical No. 1. Loss on building, \$70; insurance, \$2,000; contents, \$20; no insurance.

Oct. 3, 9.50 A. M. (Still.) Chimney fire in dwelling-house on Hawthorn street, owned and occupied by Charles W. Plummer. Responded to by men from No. 4 Station. No loss.

Oct. 6, 1.45 A. M. (Still.) Fire in store, corner Acushnet avenue and Cedar Grove street, owned by John H. Lowe and occupied by P. Herbert. Cause, spark in rubbish. Responded to by Hose No. 2. Loss on building, \$50; insurance, \$1,600; contents, \$5; insurance, \$600.

Oct. 7, 7.20 A. M. (Still.) Chimney fire in house, corner of Hawthorn and Ash streets, owned and occupied by J. P. Francis. Responded to by men from No. 4 Station. No loss.

Oct. 13, 9.15 A. M. (Still.) Chimney fire in dwelling-house, 28 Fifth street, owned and occupied by Alfred Thornton. Responded to by Chemical No. 1. No loss.

Oct. 14, 7.48 A. M. Box 57. Fire in house, corner of County and Blackmer streets, owned and occupied by Jos. Lanjole. Cause, children and matches. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

Oct. 19, 9.12 P. M. Box 127. Fire in store, corner of Pleasant and Linden streets, owned by Benjamin Dawson and occupied by Thos. F. Healey. Cause, falling lamp. Companies responding—Engines Nos. 1 and 7, Hook & Ladder No. 2, Hose No. 2, Chemical No. 1. Loss on building, \$5; insurance, \$3,000; contents, \$74.79; insurance, \$1,100.

Oct. 20, 3.22 P. M. Box 59. Fire in house on Larch street, owned by Brownell Swift and occupied by Humphrey G. Stowe. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

Oct. 21, 8.18 P. M. Box 27. Fire in harness shop on Pleasant street, owned by Mrs. M. C. S. Millard and occupied by Chas. F. Grow. Companies responding—Engines Nos. 2 and 4, Hook & Ladder No. 1, Chemical No. 1. Loss on building, \$173; insurance, \$6,000. Loss on contents—Charles F. Grow, \$116.50; insurance, \$3,000; Robert W. Taber, \$500; insurance, \$6,100; Asa L. Allen, \$300; insurance, \$1,400.

Oct. 31, 9.50 P. M. Box 39. Fire in building on South Second street. Cause, explosion. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. Loss on building, \$75; no insurance.

Nov. 1, 9.49 A. M. (Still.) Fire in house, corner School and Water streets, owned by Plummer estate and occupied by John Dowd. Cause, children and matches. Responded to by men from No. 4 Station. No loss.

Nov. 5, 3.17 P. M. Box 26. Fire in planing mill on North Water street, owned by Wilcox estate and occupied by Blossom Bros. Cause,

hot box. Companies responding—Engines Nos. 1, 2 and 5, Hook & Ladder No. 1, Chemical No. 1. No loss.

Nov. 5, 10 P. M. (Still.) Smoke in store on Purchase street, owned and occupied by C. W. Hurl. Responded to by Chemical No. 1. No loss.

Nov. 8, 1.15 P. M. (Still.) Fire in house, No. 55 Maxfield street, owned and occupied by John McCullough. Cause, child and fireworks. Responded to by Chemical No. 1. Loss on contents, \$12.75; insurance, \$2,000.

Nov. 13, 5.30 P. M. (Still.) Chimney fire in dwelling-house, corner of Fair and Dartmouth streets, owned and occupied by George E. Briggs. Responded to by men from No. 4 Station. No loss.

Nov. 16, 6.48 P. M. Box 56. Fire in south row of Acushnet mill blocks, occupied by Thomas Upling. Cause, spark in closet. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. Loss on building, \$289; insurance, \$1,400; contents, \$40; no insurance.

Nov. 19, 3.30 P. M. (Still.) Fire in bakery owned and occupied by N. Y. Biscuit Co., corner William and Water streets. Cause, overheated pipe. Responded to by Chemical No. 1.

Nov. 20, 2.25 P. M. (Still.) Chimney fire in dwelling-house, corner Cottage and Maple streets, owned and occupied by Herbert Blackmer. Responded to by men from No. 4 Station. No loss.

Nov. 20, 2.25 P. M. Box 53. Fire in house on Bolton road, owned by Peter Crapo and occupied by Thomas Harding. Cause, children and matches. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

Nov. 24, 8.30 A. M. (Still.) Fire in house, corner of Acushnet avenue and Wing streets, owned and occupied by H. E. Hicks. Cause, cigar in spittoon. Responded to by men from No. 4 Station. No loss.

Nov. 24, 10.30 A. M. Fire in house on Acushnet avenue, owned by Daniel Ricketson and occupied by Mrs. Rosefield. Responded to by Chemical No. 1. No loss.

Nov. 26, 8.30 A. M. (Still.) Fire in coal, Holmes' wharf, owned by Albert W. Holmes. Cause, spontaneous combustion. Responded to by men from No. 4 Station. Loss, \$100; no insurance.

Nov. 27, 3.30 P. M. Box 28. Fire in House of Correction, Court street. Cause, sparks from chimney. Responded to by Engines Nos. 2 and 5, Hook & Ladder No. 1, Chemical No. 1. Loss on building, \$250; no insurance.



Nov. 28, 7.30 A. M. (Still.) Fire in coal, Holmes' wharf, owned by Albert W. Holmes. Cause, spontaneous combustion. Responded by men from No. 4 Station.

Nov. 29, 10 A. M. (Still.) Chimney fire in house No. 128 School street, owned and occupied by George S. Taber. Responded to by Chemical No. 1. No loss.

Dec. 1, 8.15 P. M. (Still.) Chimney fire in bakery on Park place, owned and occupied by S. P. Richmond & Co. Responded to by Chemical No. 1. No loss.

Dec. 4, 10 A. M. (Still.) Fire in coal, Holmes' wharf, owned by Albert W. Holmes. Cause, spontaneous combustion. Responded to by men from No. 4 Station. No loss.

Dec. 4, 5.50 P. M. Box 53. Fire in house No. 311 Rivet street, owned and occupied by Matthew Strong. Cause, petroleum lamp. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. Loss on contents, \$10; no insurance.

Dec. 4, 6.50 P. M. (Still.) Fire in dwelling-house, Acushnet avenue and South street, owned and occupied by A. K. P. Sawin. Responded to by men from No. 6 Station. No loss.

Dec. 8, 10.30 A. M. (Still.) Fire in dwelling-house, corner Fourth and Russell streets, owned by Mrs. Ward M. Parker and occupied by E. P. Davis. Cause, spark dropped in closet. Responded to by men from No. 4 Station. Loss on building, \$45; insurance, \$2,000; contents, \$160; insurance, \$2,500.

Dec. 14, 6.20 P. M. Box 76. Fire at City Mfg. Co., Grinnell street. Cause, cotton in contact with steam-pipe. Companies responding—Engines Nos. 2, 4, 5 and 6, Hook & Ladders Nos. 1 and 3, Chemical No. 1. Loss on building and contents, \$1,200; insurance, blanket policy, \$320,000.

Dec. 14, 10.05 P. M. Box 76. Fire in cotton-house City Mfg. Co., Grinnell street. Cause, electric light wires. Companies responding—Engines Nos. 2, 4, 5 and 6, Hook & Ladders Nos. 1 and 3, Chemical No. 1. Loss on building and contents, \$2,400. insurance, blanket policy, \$170,000.

Dec. 15, 8.20 P. M. (Still.) Fire, F. T. Akin's wharf, caused by sparks from boiler. Responded to by Chemical No. 1. Loss on building, \$30; insurance, \$2,000.

Dec. 20, 2.45 P. M. (Still.) Fire in dwelling-house, corner County and Sixth streets, owned by Pardon Cornell and occupied by Mrs. Oesting. Cause, child and matches. Responded to by men from No. 4 Station. Loss on building, \$25; insurance, \$7,250.

Dec. 22, 8.30 P. M. Box 48. Fire in dwelling-house, No. 371 South First street, owned by John McEnnis and occupied by Jas. Cameron. Cause, spark in closet. Companies responding—Engines Nos. 4 and 6, Hook & Ladder No. 3, Chemical No. 1. No loss.

Dec. 24, 10.30 A. M. (Still.) Smoke in house, West Elm street, owned by William Gifford and occupied by A. J. Atwood. Cause, wood in oven to dry. Responded to by men from No. 5 Station. No loss.

Dec. 25, 8.25 A. M. (Still.) Fire in house No. 19 Ashland street, owned by Holder Crapo and occupied by E. A. Remington. Cause, spark from stove. Responded to by men from No. 7 Station. Loss on contents, \$200; insurance, \$400.

Dec. 25, 4.30 A. M. (Still.) Escaping steam in house on County street, owned and occupied by Rev. Father Berube. Responded to by men from No. 6 Station. No loss.

Dec. 27, 7 P. M. (Still.) Chimney fire, house corner of Acushnet avenue and Griffin street, owned by Mr. Covil and occupied by Mrs. Savery. Responded to by men from No. 4 Station. No loss.

Dec. 29, 5.20 P. M. (Still.) Fire in Robeson Building, William street, owned by Beetle & Kempton and occupied by Paul Howland. Cause, spark in rubbish in cellar. Responded to by Chemical No. 1. No loss.



The following is the amount of losses by fire in this city for the past twenty years, together with the amount of insurance on same :

Years.	Loss.	Insurance.
1877,	\$26,063.66	\$21,528.36
1878,	28,154.46	66,025.00
1879,	9,163.16	54,950.00
1880,	7,609.13	49,450.00
1881,	26,624.96	86,979.00
1882,	23,169.64	692,950.00
1883,	17,398.14	77,450.00
1884,	134,729.82	310,950.00
1885,	6,982.41	148,025.00
1886,	26,786.03	1,108,800.00
1887,	45,141.50	708,150.00
1888,	32,881.87	125,927.00
1889,	42,285.71	182,772.00
1890,	18,145.02	71,300.00
1891,	43,032.65	297,487.13
1892,	73,947.46	271,710.00
1893,	94,516.21	231,375.00
1894,	28,481.98	186,850.00
1895,	55,607.61	209,233.33
1896,	78,909.83	705,800.00

## Fire Alarm Telegraph, 1896.

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SUPERINTENDENT.

FREDERICK MACY, Chief Engineer.

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ASSISTANT SUPERINTENDENT,

DANIEL D. BRIGGS.

Residence, 43 Bedford street; Office, City Hall.

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### LOCATION OF SIGNAL BOXES.

No.

3. Lund's Corner.
4. Acushnet Heights, near reservoir.
116. Hillman and Ash streets.
123. Acushnet avenue and Davis street.
124. Acushnet avenue and Sawyer street.
125. Corner Bowditch and Weld streets.
126. Cedar Grove and North Front streets.
127. Purchase and Linden streets.
128. County and Penniman streets.
129. Purchase street and Coffin avenue.
134. Belleville avenue and Nye street.
135. Belleville avenue and Coggeshall street.
5. Linden and Ashland streets.
6. Hazard and State streets.
7. Purchase and Franklin streets.
8. County and Pearl streets.
9. Wamsutta street and Acushnet avenue.
12. Shawmut avenue and Durfee street.
13. Cedar and Locust streets.
14. Purchase and Willis streets.
15. Smith and Cedar streets.
16. County and Hillman streets.
17. Maxfield street and Acushnet avenue.
18. Purchase and North streets.

19. State and Sycamore streets.
21. North and Water streets.
23. Kempton, west of Florence street.
24. Kempton and Cedar streets.
25. County and Kempton streets.
26. Water and Middle streets.
27. Purchase street and Mechanics lane.
28. Court and Cedar streets.
29. Arnold and Ash streets.
31. Acushnet avenue and Union street.
32. Union and Eighth streets.
34. Union and Water streets.
35. Fourth and School streets.
36. Walnut and Water streets.
37. Madison and Orchard streets.
38. Bedford and Sixth streets.
39. Acushnet avenue and Cannon street.
41. Hawthorn and Page streets.
42. Allen and Page streets.
45. Allen and Bonney streets.
46. South Water and Leonard streets.
47. Junction of Sixth and County streets.
48. Water and South streets.
51. Dartmouth and Rockland streets.
52. Fourth street, head of Potomska.
53. Crapo and Rivet streets.
56. South Water and Rivet streets.
57. Mosher and County streets.
58. South Water and Cove streets.
223. Court and Tremont streets.
226. Rodman and Front streets.
227. New Bedford and Fairhaven Bridge.
- \*61. Union Street Railway Car Stables.
- \*62. Grinnell Mills.
- \*63. Wamsutta Mills.
- \*64. New Bedford Manufacturing Company.
- \*65. Hathaway, Soule & Harrington.
- \*67. New Bedford Cordage Factory.
- \*68. New Bedford Copper Works.
- \*71. Pairpoint Manufacturing Co.
- \*72. George Delano's Sons & Co's Works.
- \*73. Potomska Mills.
- \*74. Acushnet Mills.
- \*75. Morse Twist Drill Co.
- \*76. City Manufacturing Co.

- \*78. Dartmouth Mills.
- \*81. Howland Mills.
- \*82. Hathaway Mills.
- \*83. Rotch Mills.
- \*84. Iron Foundry, foot of Cannon street.
- \*85. New Bedford Gas Works.
- \*86. Old Colony Steamboat Co.
- \*91. Bennett Mills.
- \*92. New Bedford Casket Co.
- \*93. Pierce Mills.
- \*94. Old Colony Freight Depot, Pearl street.
- \*95. Bristol Mills.
- \*96. Columbia Mills.
- 581. City Almshouse.
- \*97. Whitman Mills.

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\*Private boxes

## Location of Reservoirs.

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Durfee street, southeast corner of Shawmut avenue.  
Linden street, northeast corner of Ashland.  
Franklin street, southwest corner of State.  
Willis street, northeast corner of State.  
Campbell street, west side of Purchase.  
Smith street, southeast corner of Cottage.  
Pleasant street, between Maxfield and Sycamore.  
County street, southeast corner of Maxfield.  
Pleasant street, southwest corner of North.  
Chestnut street, between Mill and North.  
Mill street, southwest corner of Purchase.  
Middle street, near southeast corner of Purchase.  
Middle street, west of grammar school.  
County street, front of M. E. church.  
North Second street, northwest corner of William.  
City Hall square, west of hall.  
Court street, near head of Orchard.  
Union street, southwest corner of County.  
School street, northwest corner of Fourth.  
South Second street, northwest corner of Walnut.  
South Sixth street, northwest corner of Walnut.  
Orchard street, east side, below Hawthorn.  
Russell street, between County and South Sixth.  
Acushnet avenue, southeast corner of Cannon.  
Bedford street, southeast corner of Fifth.  
South Sixth street, southwest corner of Wing.  
Acushnet avenue, southeast corner of Grinnell.  
Washington street, northeast corner of Crapo.

## LOCATION OF HYDRANTS.

	Pressure in lbs.
Abbott street, northwest corner Ruth avenue . . . . .	56
Acushnet avenue, west side, north of Tarkiln Hill road 837 feet .	48
Acushnet avenue, west side, 542 feet north of Tarkiln Hill road .	54
Acushnet avenue, southwest corner Tarkiln Hill road . . . . .	55
Acushnet avenue, west side, south of Tarkiln Hill road 500 feet .	54
Acushnet avenue, west side, south of Tarkiln Hill road 997 feet .	53
Acushnet avenue, west side, north of Howard avenue 600 feet . .	53
Acushnet avenue, west side, north of Howard avenue 6 feet . . .	54
Acushnet avenue, west side, south of Howard avenue 601 feet . .	55
Acushnet avenue, west side, north of Shaw 610 feet . . . . .	51
Acushnet avenue, northwest corner of Shaw . . . . .	47
Acushnet avenue, west side, north of Belleville road 603½ feet . .	45
Acushnet avenue, west side, head of Belleville road . . . . .	42
Acushnet avenue, northwest corner of Nash road . . . . .	40
Acushnet avenue, northwest corner of Hathaway avenue . . . . .	40
Acushnet avenue, northwest corner of Davis . . . . .	41
Acushnet avenue, southwest corner of Phillips avenue . . . . .	39
Acushnet avenue, southwest corner of Dean . . . . .	48
Acushnet avenue, west side, north of Sawyer 574½ feet . . . . .	53
Acushnet avenue, southwest corner of Coggeshall . . . . .	56
Acushnet avenue, southwest corner of Cedar Grove . . . . .	54
Acushnet avenue, west side, south of Logan 335 feet . . . . .	60
Acushnet avenue, west side, north of Wamsutta 514 feet. Double	62
Acushnet avenue, west side, north of Wamsutta 372 feet . . . . .	60
Acushnet avenue, west side, south of Wamsutta 255 feet. Flush .	63
Acushnet avenue, west side, at end of Wall street . . . . .	62
Acushnet avenue, southeast corner of Pope. Flush . . . . .	64
Acushnet avenue, northwest corner of Willis. Flush . . . . .	61
Acushnet avenue, west side, south of Campbell 179 feet. Flush .	59
Acushnet avenue, northwest corner of Maxfield. Flush . . . . .	57
Acushnet avenue, northwest corner of Kempton. Flush . . . . .	47
Acushnet avenue, northeast corner of Elm. Flush . . . . .	47
Acushnet avenue, northwest corner of School . . . . .	51



	Pressure in lbs.
Acushnet avenue, northwest corner of Madison . . . . .	57
Acushnet avenue, northwest corner of Russell . . . . .	58
Acushnet avenue, northwest corner of Bedford . . . . .	60
Acushnet avenue, west side, opposite Howland. Flush . . . . .	61
Acushnet avenue, northwest corner of Potomska . . . . .	50
Acushnet avenue, west side, north of Rivet 98 feet . . . . .	59
Acushnet avenue, southwest corner of Blackmer. Flush . . . . .	60
Allen street, south side, 445 feet west of Rural . . . . .	26
Allen street, southeast corner of Devoll . . . . .	29
Allen street, southwest corner of Page . . . . .	36
Allen street, north side, east of Page 159 feet. Flush . . . . .	38
Allen street, northwest corner of Ward. Flush . . . . .	41
Arch street, southwest corner of Union. Flush . . . . .	24
Armour street, southwest corner of Union . . . . .	24
Arnold street, south side, west of Orchard 96 feet . . . . .	22
Arnold street, southwest corner of Chancery. Flush . . . . .	33
Arnold street, southeast corner of Atlantic. Flush . . . . .	32
Arnold street, south side, 15.3 feet west of James . . . . .	24
Ash street, northwest corner of Middle . . . . .	27
Ash street, southwest corner of Morgan. Double . . . . .	25
Ash street, northwest corner of Arnold. Flush . . . . .	32
Ash street, northwest corner of Maple. Flush . . . . .	34
Ash street, northwest corner of Bedford . . . . .	37
Ashland street, southwest corner of Clark . . . . .	12
Atlantic street, northwest corner of Maple . . . . .	29
Atlantic street, southwest corner of Union . . . . .	31
Austin street, southeast corner of State . . . . .	42
Austin street, southwest corner of Purchase . . . . .	56
Austin street, southeast corner of Cedar . . . . .	19
Austin street, south side, on west line of Wilson . . . . .	20
Austin street, southwest corner of Ashland . . . . .	15
Austin street, southeast corner of Shawmut avenue . . . . .	14
Babbitt street, south side, 207.5 feet west of Dartmouth . . . . .	42
Babbitt street, southeast corner of Field . . . . .	37
Bedford street, southwest corner of Fourth . . . . .	53
Bedford street, southwest corner of Fifth . . . . .	55

	Pressure in lbs.
Bedford street, southwest corner of County . . . . .	42
Bedford street, southwest corner of Orchard . . . . .	33
Beech street, northwest corner of Kempton . . . . .	18
Beetle street, southwest corner of Howard . . . . .	55
Beetle street, southeast corner of Front . . . . .	57
Belleville avenue, west side, 118 feet north of Washburn . . . . .	63
Belleville avenue, northwest corner of Cedar Grove . . . . .	62
Belleville avenue, southwest corner of Washburn . . . . .	61
Belleville avenue, west side, 134 feet north of Coggeshall . . . . .	62
Belleville avenue, northwest corner of Beetle . . . . .	60
Belleville avenue, southwest corner of Plummer avenue . . . . .	58
Belleville road, southwest corner of Diman . . . . .	34
Belleville road, south side, east of Acushnet avenue 1,344 feet . . . . .	40
Blackmer street, south side, east of Front 284 feet . . . . .	59
Blackmer street, south side, east of Front 575 feet . . . . .	60
Blackmer street, south side, east of Front 738 feet . . . . .	60
Blackmer street, south side, east of Front 904 feet . . . . .	60
Bolton road, west side, 370 feet north of Rivet . . . . .	50
Bolton road, west side, north of Rotch Mill No. 2 . . . . .	49
Bolton road, west side, south of Rotch Mill No. 2 . . . . .	49
Bolton road, west side, south of Rivet 1,027 feet . . . . .	59
Bolton road, northwest corner of Poplar road . . . . .	59
Bonney street, southwest corner of Allen . . . . .	41
Bonney street, northwest corner of Grinnell . . . . .	48
Bonney street, northwest corner of Rockland . . . . .	54
Bonney street, southwest corner of Thompson . . . . .	55
Borden street, northwest corner of Bedford . . . . .	36
Borden street, southwest corner of Bay . . . . .	42
Bowditch street, southwest corner of Weld . . . . .	56
Bowditch street, west side, 313 feet south of Cedar Grove . . . . .	55
Bowditch street, west side, north of Cedar Grove 244 feet . . . . .	55
Bowditch street, northwest corner of Coggeshall . . . . .	49
Bowditch street, west side, 358 feet north of Coffin avenue . . . . .	34
Bowditch street, southwest corner of Davis . . . . .	29
Bowditch street, west side, north of Davis 175 feet . . . . .	28
Bridge avenue, north side, 44 feet west of draw. Flush . . . . .	62

Pressure  
in lbs.

Bridge avenue, south side, 11 feet west of draw. Flush . . . . .	62
Brock avenue, west side, 650 feet east of W. French ave. Flush . . .	53
Brock avenue, west side, 2,510 feet east of McGurk. Flush . . . . .	43
Brownell street, west side, 294 feet south of Union . . . . .	22
Bullard street, southwest corner of Belleville avenue . . . . .	60
Bullard street, southeast corner of Front . . . . .	50
Bullock street, southwest corner of Trinity . . . . .	14
Butler street, south side, 1,635 ft. east of Brock avenue. Flush . . .	55
Butler street, south side, 287 feet east of Brock avenue. Flush . . .	40
Campbell street, south side, east of County 163 feet. Flush . . . . .	28
Campbell street, south side, 216.5 feet west of County . . . . .	25
Campbell street, southwest corner of Cottage . . . . .	19
Campbell street, south side, east of Shawmut ave. 205 feet. Flush . .	18
Campbell street, southwest corner of Purchase . . . . .	49
Cannon street, south side, east of Second 164 feet . . . . .	63
Cedar street, northwest corner of Elm. Double . . . . .	25
Cedar street, southwest corner of Kempton. Flush . . . . .	26
Cedar street, west side, north of Mill 75 feet. Flush . . . . .	23
Cedar street, southwest corner of Hillman. Flush . . . . .	23
Cedar street, northwest corner of Sycamore. Flush . . . . .	21
Cedar street, southwest corner of Campbell. Flush . . . . .	18
Cedar street, southwest corner of Parker. Flush . . . . .	19
Cedar Grove street, southeast corner of Front . . . . .	60
Cedar Grove street, southeast corner of Howard . . . . .	58
Cedar Grove street, south side, 383 feet west of Bowditch . . . . .	57
Cedar Grove street, northwest corner of Purchase . . . . .	56
Cedar Grove street, southwest corner of County . . . . .	43
Cedar Grove street, south side, 183.5 feet west of County . . . . .	40
Centre street, south side, east of Water 85 feet. Flush . . . . .	56
Chancery street, southwest corner of Maple . . . . .	34
Chancery street, west side, north of Arnold 406 feet . . . . .	33
Chancery street, southwest corner of Elm . . . . .	28
Chancery street, west side, south of Parker 176 feet . . . . .	24
Chancery street, west side, north of Parker 650 feet . . . . .	16
Cherry street, southeast corner of Seventh. Flush . . . . .	38
Chestnut street, southwest corner of North. Flush . . . . .	19

	Pressure in lbs.
Chestnut street, west side, north of Campbell 96 feet. Flush . . .	22
Chestnut street, southwest corner of Merrimac . . . . .	16
Church street, southwest corner of Hathaway avenue . . . . .	33
Church street, west side, 591.4 feet north of Coffin avenue . . . .	36
Clark street, southwest corner of State . . . . .	46
Clark street, south side, west of County 218 feet . . . . .	34
Clay street, northwest corner of Columbia . . . . .	44
Cleveland avenue, west side, 681 feet south of Cove . . . . .	54
Clinton street, south side, east of Orchard 125 feet. Flush . . .	26
Clinton street, south side, west of Ash 242.5 feet . . . . .	44
Coffin avenue, southwest corner of Church . . . . .	40
Coffin avenue, south side, opposite Onoko lane . . . . .	40
Coffin avenue, southeast corner of Bowditch . . . . .	40
Coffin avenue, southwest corner of Belleville avenue . . . . .	59
Coffin avenue, southeast corner of Front . . . . .	50
Coffin avenue, northwest corner of Riverside avenue . . . . .	56
Coffin avenue, south side, east of Riverside avenue 227 feet . . .	56
Coffin avenue, north side, east of Riverside avenue, 414 feet . . .	56
Coffin street, north side, 262 feet east of Water . . . . .	62
Coggeshall street, south side, 654 feet east of Mitchell . . . . .	63
Coggeshall street, south side, 498 feet east of Mitchell . . . . .	62
Coggeshall street, south side, 334 feet east of Mitchell . . . . .	62
Coggeshall street, north side, 148 feet east of Mitchell . . . . .	62
Coggeshall street, southeast corner of Belleville avenue . . . . .	62
Coggeshall street, southwest corner of Front . . . . .	61
Coggeshall street, southwest corner of Purchase . . . . .	53
Coggeshall street, southeast corner of County . . . . .	43
Coggeshall street, south side, 384 feet west of County . . . . .	36
Collette street, south side, east of Acushnet avenue 275 feet . . .	38
Collins street, southeast corner of Glover . . . . .	15
Columbia street, southwest corner of Allen . . . . .	40
Commercial street, north side, east of Front 82 feet . . . . .	62
Cottage road, south side, 435 feet west of Bolton road . . . . .	55
Cottage street, southwest corner of Bay . . . . .	43
Cottage street, northwest corner of Allen. Flush . . . . .	42
Cottage street, northwest corner of Bedford. Flush . . . . .	37

	Pressure in lbs.
Cottage street, northwest corner of Hawthorn. Flush . . . . .	31
Cottage street, southwest corner of Arnold. Flush . . . . .	23
Cottage street, southwest corner of Union. Flush . . . . .	22
Cottage street, southwest corner of Kempton . . . . .	22
Cottage street, northwest corner of Hillman . . . . .	20
Cottage street, northwest corner of Sycamore . . . . .	20
Cottage street, northwest corner of Parker . . . . .	23
Cottage street, west side, 237 feet north of Locust . . . . .	20
Cottage street, west side, 92 feet south of Austin . . . . .	17
Cottage street, southwest corner of Durfee . . . . .	8
County street, southwest corner of Sawyer . . . . .	44
County street, southeast corner of Penniman . . . . .	44
County street, west side, 234½ feet south of Clark . . . . .	43
County street, west side, 115 feet south of Weld . . . . .	42
County street, southwest corner of Austin . . . . .	33
County street, southwest corner of Smith . . . . .	30
County street, southwest corner of Maxfield. Flush . . . . .	25
County street, southwest corner of North. Flush . . . . .	21
County street, southwest corner of Middle. Double . . . . .	22
County street, southwest corner of Morgan . . . . .	22
County street, northwest corner of Union. Flush . . . . .	24
County street, west side, head of School . . . . .	23
County street, southwest corner of Madison . . . . .	27
County street, southwest corner of Hawthorn . . . . .	32
County street, northwest corner of Allen . . . . .	45
County street, southwest corner of Grinnell . . . . .	61
County street, northwest corner of South . . . . .	62
County street, northwest corner of Winsor . . . . .	57
County street, west side, 71 feet north of Division . . . . .	54
County street, northwest corner of Cove road . . . . .	62
Court street, southwest corner of Orchard . . . . .	20
Court street, southeast corner of Cedar . . . . .	20
Court street, northeast corner of Ash . . . . .	20
Court street, southwest corner of Emerson . . . . .	25
Court street, south side, west from Park 304 feet. Flush . . . . .	32
Court street, south side, head of Jenney . . . . .	23



	Pressure in lbs.
Court street, south side, east of Reed 300 feet . . . . .	22
Cove road, southwest corner of Shore street . . . . .	61
Cove road, north side, 365 feet west of County . . . . .	61
Cove street, southwest corner of Cleveland avenue . . . . .	61
Cove street, southwest corner of Harrison avenue . . . . .	61
Cove street, southwest corner of Salisbury . . . . .	59
Cove street, southwest corner of Viall . . . . .	59
Cove street, southwest corner of McGurk . . . . .	59
Cove street, southwest corner of West French avenue . . . . .	57
Cove street, southeast corner of Stapleton . . . . .	55
Cove street, southeast corner of County . . . . .	62
Crapo street, west side, south of Washington 343 feet. Flush . . . .	60
Crapo street, west side, south of Rockland 225 feet. Flush . . . .	63
Crapo street, west side, 160 feet south of Thompson . . . . .	58
Dartmouth street, east side, southwest of Orchard 110 feet . . . .	46
Dartmouth street, east side, 125 feet south of Hickory . . . . .	47
Dartmouth street, east side, 260 feet south of Rockland . . . . .	45
Dartmouth street, east side, 99 feet south of Thompson . . . . .	44
Dartmouth street, southeast corner of Larch . . . . .	42
Dartmouth street, northeast corner of Dunbar . . . . .	41
Davis street, southwest corner of Riverside avenue . . . . .	56
Davis street, south side, 321.8 feet east of Front . . . . .	50
Davis street, southwest corner of Front . . . . .	46
Dean street, southwest corner of Belleville avenue . . . . .	62
Dean street, southeast corner of Front . . . . .	50
Delano street, southwest corner of Water . . . . .	57
Delano street, southeast corner of Acushnet avenue . . . . .	57
Division street, southeast corner of Second . . . . .	61
Division street, south side, 527 feet west of County . . . . .	62
Division street, south side, east of Crapo 6 feet . . . . .	58
Durfee street, southwest corner of Cedar . . . . .	15
Durfee street, southwest corner of Bullock . . . . .	17
Durfee street, southwest corner of Shawmut avenue . . . . .	12
East French avenue, northwest corner of Abbott . . . . .	61
Edwards street, south side, 90 feet east of Field . . . . .	35
Elm street, southwest corner of Purchase . . . . .	43



Pressure  
in lbs.

Elm street, southwest corner of Pleasant . . . . .	37
Elm street, southwest corner of Eighth . . . . .	21
Elm street, southwest corner of Summer. Flush . . . . .	18
Elm street, south side, 43.5 feet west of Florence . . . . .	26
Elm street, southeast corner of Palmer . . . . .	14
Emerson street, west side, 173.8 feet north of Arnold . . . . .	29
Field street, northwest corner of Stowell . . . . .	37
Fifth street, southwest corner of Union . . . . .	41
Fifth street, southwest corner of School . . . . .	45
Fifth street, west side, south of Madison 245 feet. Flush . . . . .	50
Fifth street, northwest corner of Wing . . . . .	59
Fifth street, northwest corner of Grinnell Flush . . . . .	61
First street, southwest corner of Spring. Flush . . . . .	58
First street, west side, south of School 109 feet. Flush . . . . .	57
First street, west side, south of Howland 185 feet. Flush . . . . .	65
First street, northwest corner of Potomska . . . . .	59
Florence street, southwest corner of Hillman . . . . .	24
Florence street, northwest corner of Mill . . . . .	24
Florence street, west side, 199.6 feet south of Kempton . . . . .	27
Florence street, southwest corner of Morgan . . . . .	29
Forest street, south side, west of County 90 feet. Flush . . . . .	53
Foster street, southwest corner of High . . . . .	30
Fourth street, southwest corner of Union. Flush . . . . .	46
Fourth street, west side, north of School 106 feet. Flush . . . . .	46
Fourth street, west side, south of Madison 210 feet. Flush . . . . .	54
Fourth street, east side, opposite Washington . . . . .	57
Fourth street, northwest corner of Rockland. Flush . . . . .	62
Fourth street, west side, south of Potomska 61 feet . . . . .	58
Franklin street, southwest corner of Pleasant. Flush . . . . .	43
Franklin street, southwest corner of State . . . . .	38
French avenue, west side, south of Cove road 14 feet. Flush . . . . .	60
Front street, southwest corner of Holly . . . . .	56
Front street, west side, south of Washburn 319 feet. Flush . . . . .	62
Front street, southwest corner of Logan . . . . .	60
Front street, west side, 190.2 feet south of Logan . . . . .	62
Front street, west side, south of Logan 383 feet . . . . .	63

	Pressure in lbs.
Front street, west side, 235.2 feet north of Wamsutta . . . . .	.63
Front street, southeast corner of Wamsutta . . . . .	.63
Front street, southwest corner of Middle . . . . .	.62
Front street, southwest corner of Hazard's lane. Flush . . . . .	.61
Front street, northwest corner of Rodman . . . . .	.61
Front street, southwest corner of Centre. Flush . . . . .	.61
Front street, west side, south of Commercial 86 feet. Flush . . . . .	.63
Front street, northwest corner lane head of Merrill's wharf. Flush . . . . .	.65
Front street, west side, south of Howland 268 feet . . . . .	.61
Front street, southwest corner of Grinnell . . . . .	.62
Front street, west side, south of South 330 feet . . . . .	.62
Front street, west side, 191 feet north of Blackmer . . . . .	.59
Front street, west side, north of Delano 191 feet . . . . .	.62
Front street, west side, south of Delano 200 feet . . . . .	.57
Fruit street, south side, east of Hemlock 126.5 feet . . . . .	.53
Fruit street, south side, 25.5 feet west of Mulberry . . . . .	.46
Gifford street, south side, 274 feet east of Water . . . . .	.65
Gifford street, south side, 167.8 feet west of Harbor . . . . .	.60
Gifford street, south side, 299.3 feet east of Harbor . . . . .	.62
Grand street, south side, 750 feet west of Shawmut avenue . . . . .	.14
Granfield street, west side, 263 feet north of Coggeshall . . . . .	.59
Grape street, south side, west of Lewis 131 feet . . . . .	.36
Grape street, southwest corner of Small . . . . .	.35
Grape street, southwest corner of Devoll . . . . .	.29
Griffin street, southwest corner of Second. Flush . . . . .	.62
Grinnell street, south side, west of Acushnet avenue 76 feet. Flush . . . . .	.60
Grinnell street, south side, east of Crapo 103 feet. Flush . . . . .	.58
Grinnell street, southwest corner of Orchard . . . . .	.50
Grove street, southwest corner of Anthony . . . . .	.26
Harbor street, east side, 195 feet north of Cove . . . . .	.60
Harbor street, east side, 372 feet north of Cove . . . . .	.60
Harbor street, east side, 540 feet north of Cove . . . . .	.60
Harbor street, east side, 195.8 feet south of Gifford . . . . .	.61
Harbor street, southeast corner of Gifford . . . . .	.61
Harmony street, southwest corner of Social . . . . .	.59
Harrison street, southwest corner of Hickory . . . . .	.48

	Pressure in lbs.
Hathaway avenue, south side, 233.4 feet east of Church . . . . .	33
Hawthorn street, southeast corner of Page. Flush . . . . .	28
Hawthorn street, south side, east of Tremont 147 feet . . . . .	28
Hawthorn street, southwest corner of Brigham . . . . .	26
Hawthorn street, south side, 301 feet west of Brigham . . . . .	24
Hazard street, south side, west of State 140 feet. Flush . . . . .	36
Hazard street, southwest corner of Pleasant. Flush . . . . .	46
Hemlock street, west side, 231 feet south of Rockland . . . . .	50
Hicks street, south side, east of Acushnet avenue 276 feet . . . . .	56
High street, south side, east of Acushnet avenue 43 feet. Flush . . . . .	48
High street, southwest corner of Purchase . . . . .	42
High street, south side, east of County 177 feet. Flush . . . . .	23
Highland street, west side, 418.4 feet north of Durfee . . . . .	12
Hillman street, southwest corner of Second. Flush . . . . .	57
Hillman street, southwest corner of Purchase . . . . .	45
Hillman street, southwest corner of Pleasant . . . . .	35
Hillman street, head of State . . . . .	27
Hillman street, head of Thomas . . . . .	23
Hillman street, southwest corner of Chancery . . . . .	29
Holly street, southwest corner of Belleville avenue . . . . .	61
Holly street, southwest corner of Bowditch . . . . .	48
Holly street, southeast corner of Brook . . . . .	47
Hollyhock street, south side, 133 feet east of Field . . . . .	40
Homer street, southwest corner of Locust . . . . .	18
Howard avenue, south side, 364 feet east of Acushnet avenue . . . . .	52
Howland street, northeast corner of Second. Flush . . . . .	63
Howland street, south side, 19.2 feet west of Prospect . . . . .	60
Hunter street, southwest corner of Hillman . . . . .	20
Independent street, south side, 480 feet west of County . . . . .	57
Independent street, southeast corner of Crapo . . . . .	56
Irving court, north end of court. Flush . . . . .	25
James street, west side, 107 feet north of Arnold . . . . .	24
James street, southwest corner of Court . . . . .	24
Jouvette street, south side, west of County 338 feet . . . . .	56
Katharine street, southeast corner of Crapo . . . . .	58
Katharine street, south side, 442 feet west of County . . . . .	57

	Pressure in lbs.
Kempton street, southwest corner of Pleasant . . . . .	36
Kempton street, south side, opposite Hill . . . . .	23
Kempton street, southwest corner of Summer . . . . .	14
Kempton street, southwest corner of County . . . . .	15
Kempton street, southwest corner of Emerson. Flush . . . . .	26
Kempton street, southwest corner of Park. Flush . . . . .	28
Kempton street, southwest corner of Liberty. Flush . . . . .	29
Kempton street, southeast corner of Jenney. Flush . . . . .	26
Kempton street, south side, west of Hunter 50 feet . . . . .	21
Kempton street, southwest corner of Francis . . . . .	14
Kilburn street, north side, east of Front 244 feet . . . . .	62
Kilburn street, north side, east of Front 581 feet . . . . .	64
Larch street, south side, 120 feet east of Mulberry . . . . .	45
Larch street, south side, 129 feet east of Hemlock . . . . .	51
Liberty street, west side, south of Kempton 339 feet. Flush . . . . .	30
Lincoln street, west side, south of Union 171 feet. Flush . . . . .	23
Linden street, south side, west of State $13\frac{1}{2}$ feet . . . . .	43
Linden street, south side, west of County 169 feet . . . . .	34
Linden street, south side, $67\frac{1}{2}$ feet west of Reynolds . . . . .	24
Linden street, south side, $6\frac{1}{2}$ feet east of Ashland . . . . .	14
Lindsey street, west side, 173 feet south of Kempton . . . . .	27
Lindsey street, northwest corner of Morgan . . . . .	24
Locust street, southwest corner County . . . . .	19
Locust street, southwest corner of Chestnut . . . . .	23
Locust street, southeast corner of Richmond . . . . .	15
Logan street, south side, east of Acushnet avenue 400 feet. Flush . . . . .	62
Logan street, southwest corner of Acushnet avenue. Flush . . . . .	63
Lombard street, west side, $209\frac{1}{2}$ feet south of Rockland . . . . .	50
Madison street, southwest corner of First. Flush . . . . .	61
Madison street, southwest corner of Sixth . . . . .	41
Maitland street, southwest corner of Cedar . . . . .	19
Maitland street, south side, 101 feet west of Richmond . . . . .	16
Maxfield street, southwest corner of Second . . . . .	58
Maxfield street, southwest corner of Purchase . . . . .	46
Maxfield street, southwest corner of Pleasant . . . . .	38
Maxfield street, southwest corner of Foster . . . . .	33

	Pressure in lbs.
Maxfield street, southwest corner of County . . . . .	22
Maxfield street, southwest corner of Chestnut . . . . .	15
Maxfield street, southeast corner of Spruce. Flush . . . . .	21
Maxfield street, southeast corner of Ash . . . . .	22
Maxfield street, south side, 44.4 feet east of Chancery . . . . .	27
McGurk street, west side, 348 feet north of Brock avenue . . . . .	55
Mechanics lane, northwest corner of Purchase . . . . .	42
Mechanics lane, north side, east of Eighth 206 feet. Flush . . . . .	30
Merrimac street, southwest corner of State . . . . .	41
Merrimac street, south side, 200 feet west of County . . . . .	16
Middle street, southwest corner of Second . . . . .	52
Middle street, southwest corner of Acushnet avenue . . . . .	46
Middle street, southwest corner of Purchase . . . . .	42
Middle street, southwest corner of Pleasant . . . . .	35
Middle street, southwest corner of Sixth . . . . .	30
Middle street, south side, east of Cedar 371 feet. Flush . . . . .	32
Middle street, southeast corner of Chancery. Flush . . . . .	29
Mill street, northwest corner of Purchase . . . . .	43
Mill street, south side, west of Hill 191 feet. Flush . . . . .	25
Mill street, south side, west of Ash 45 feet. Flush . . . . .	25
Mill street, south side, 104 feet east of Park . . . . .	25
Mill street, southeast corner of Newton . . . . .	26
Mill street, south side, 138 feet west of Hunter . . . . .	18
Mill street, south side, 97.9 feet west of Beech . . . . .	14
Mitchell street, northwest corner of Coggeshall . . . . .	61
Mitchell street, west side, 178.8 feet north of Coggeshall . . . . .	63
Mitchell street, west side, 345 feet south of Sawyer . . . . .	61
Mitchell street, southwest corner of Sawyer . . . . .	51
Moorland terrace, south side, 335 feet east of Page . . . . .	32
Morgan street, southwest corner of Cottage. Flush . . . . .	33
Morton's court, west side, 385.3 feet north of Cove . . . . .	59
Mosher street, south side, west of County 517 feet . . . . .	59
Mosher street, southeast corner of Crapo . . . . .	55
Mt. Pleasant street, west side, south of Tarkiln Hill road 35 feet . . . . .	
Mt. Pleasant street, west side, north of Nash road 1,671 feet . . . . .	
Mt. Pleasant street, west side, north of Nash road 348 feet . . . . .	



Pressure  
in lbs.

Mt. Pleasant street, west side, north of railroad fence 285 feet . . .	
Mt. Pleasant street, west side, south of Hathaway road 40 feet . .	
Mt. Pleasant street, west side, north of Peckham-West Cemetery 277 feet . . . . .	
Mt. Pleasant street, west side, south of Peckham-West Cemetery 74 feet . . . . .	
Mt. Pleasant street, west side, north of reservoir 837 feet . . . .	
Mt. Pleasant street, west side, north of reservoir 450 feet . . . .	
Mt. Pleasant street, west side, north of reservoir 40 feet . . . .	
Mt. Pleasant street, west side, south of Peckham 217 feet . . . .	
Mt. Vernon street, southwest corner Mt. Pleasant . . . . .	5
Mt. Vernon street, southeast corner Vine. Flush . . . . .	5
Myrtle street, west side, 22 feet south of Weld . . . . .	23
Myrtle street, southwest corner of Clark . . . . .	18
Nelson street, south side, 541.6 feet west of County . . . . .	60
Newton street, northwest corner of Elm . . . . .	29
North street, southeast corner of Second . . . . .	54
North street, southwest corner of Acushnet avenue . . . . .	49
North street, southwest corner of Purchase . . . . .	44
North street, northwest corner of Pleasant . . . . .	35
North street, southwest corner of Foster . . . . .	30
North street, southwest corner of Hill . . . . .	26
North street, southwest corner of Park . . . . .	29
North street, south side, 258 feet west of Newton . . . . .	24
North street, southwest corner of Hunter . . . . .	22
North street, southwest corner of Beech . . . . .	17
Nye street, southwest corner of Belleville avenue . . . . .	60
Nye street, southwest corner of Front . . . . .	54
Nye street, south side, west of Acushnet avenue 204 feet . . . .	42
Oak street, southwest corner of Harrison . . . . .	45
Oak street, northwest corner of Grape . . . . .	41
Oak street, southwest corner of Allen . . . . .	38
Ocean street, west side, 184½ feet south of Arnold . . . . .	32
Orchard street, southwest corner of Madison . . . . .	27
Orchard street, southwest corner of Grove . . . . .	34
Orchard street, west side, north of Rockland 98 feet . . . . .	48



	Pressure in lbs.
Page street, west side, 429½ feet south of Hawthorn . . . . .	36
Palmer street, northwest corner Union . . . . .	20
Park place, south side, west of Sixth 306 feet. Flush . . . . .	32
Park street, west side, 27.1 feet south of Maxfield . . . . .	24
Park street, southwest corner of Hillman . . . . .	25
Park street, west side, south of Kempton 339 feet . . . . .	27
Park street, northwest corner of Court . . . . .	28
Park street, west side, north of Arnold 263 feet . . . . .	34
Parker street, south side, at Oak Grove cemetery . . . . .	25
Parker street, southwest corner of Summer. Flush . . . . .	27
Parker street, southwest corner of County . . . . .	21
Pearl street, southwest corner of Pleasant . . . . .	41
Pearl street, southwest corner of Purchase . . . . .	50
Phillips avenue, southwest corner Riverside avenue . . . . .	56
Pine street, northwest corner of Cross. Flush . . . . .	65
Plainville road, south side, east of Shawmut avenue 705 feet . . . .	
Plainville road, south side, east of Shawmut avenue 1,139 feet . . .	
Plainville road, south side, east of Shawmut avenue 2,317 feet . . .	
Plainville road, south side, east of Shawmut avenue 3,113 feet . . .	
Plainville road, south side, east of Shawmut avenue 3,920 feet . . .	
Pleasant street, northwest corner of Market . . . . .	40
Pleasant street, west side, north of William 21½ feet . . . . .	40
Pleasant street, east side, foot of Sycamore . . . . .	39
Pleasant street, northwest corner of Pope. Flush . . . . .	42
Pleasant street, northwest corner of Austin. Flush . . . . .	47
Pleasant street, southwest corner of Linden. Flush . . . . .	48
Pleasant street, southwest corner of Weld . . . . .	48
Plummer avenue, southwest corner of Riverside avenue . . . . .	56
Plummer avenue, south side, 177 feet east of Belleville avenue . . .	58
Pope street, south side, opposite North Oak . . . . .	27
Pope street, southwest corner of Summer . . . . .	20
Poplar road, south side, 431 feet west of Bolton road . . . . .	52
Potomska street, a group of three post hydrants located about 300 feet east of Prospect and 91 feet north of south line of Po- tomska street . . . . .	64
Prospect street, west side, 275.2 feet north of Grinnell . . . . .	61

	Pressure in lbs.
Prospect street, northwest corner of Grinnell . . . . .	63
Prospect street, west side, north of Potomska 324½ feet . . . . .	62
Prospect street, northwest corner of Potomska . . . . .	63
Purchase street, northwest corner of Dean . . . . .	43
Purchase street, west side, opposite Oneko mill . . . . .	48
Purchase street, east side, opposite Clark . . . . .	58
Purchase street, west side, opposite Logan. Flush . . . . .	58
Purchase street, northwest corner of Merrimac. Double . . . . .	51
Purchase street, northwest corner of Pope. Flush . . . . .	52
Purchase street, west side, 348 feet south of Campbell . . . . .	48
Purchase street, northwest corner of Union. Flush . . . . .	43
Purchase avenue, northeast corner of Purchase . . . . .	42
Reed street, west side, 145 feet north of Court . . . . .	19
Reed street, southwest corner of Elm . . . . .	14
Reed street, southwest corner of Middle . . . . .	14
Reynolds street, southwest corner of Weld . . . . .	26
Reynolds street, west side, 17.9 feet south of Clark . . . . .	29
Rivet street, southwest corner of Second. Flush . . . . .	62
Rivet street, southwest corner of County . . . . .	59
Rivet street, southwest corner of Bonney . . . . .	59
Rivet street, southwest corner of Hemlock . . . . .	51
Rivet street, southeast corner of Bolton road . . . . .	56
Robeson street, southwest corner of County . . . . .	20
Robeson street, southeast corner of Cottage . . . . .	19
Robeson street, southwest corner of Ashland . . . . .	15
Robeson street, southeast corner of Cedar . . . . .	21
Robeson street, south side, 424 feet west of Cedar . . . . .	17
Rockdale avenue, southwest corner of Bolton road . . . . .	57
Rockdale avenue, south side, 327 feet west of Bolton road . . . . .	54
Rockland street, southwest corner of County . . . . .	58
Rockland street, southeast corner of Hall . . . . .	56
Rockland street, south side, 13 feet west of Orchard . . . . .	54
Rockland street, south side, 179.3 feet east of Hemlock . . . . .	51
Rockland street, southwest corner of Lombard . . . . .	50
Rotch street, west side, south of Union 140 feet . . . . .	20
Rounds street, northwest corner of Elm . . . . .	22

	Pressure in lbs.
Rural street, southwest corner of Allen . . . . .	28
Russell street, south side, east of Fifth 92 feet. Flush . . . . .	54
Russell street, southwest corner of Sixth . . . . .	47
Russell street, south side, 179 feet west of Sixth . . . . .	42
Salisbury street, west side, 598 feet south of Cove . . . . .	53
Sand street, northwest corner Grit . . . . .	58
Sawyer street, southwest corner of Bowditch . . . . .	53
Sawyer street, southwest corner of Acushnet avenue . . . . .	59
Sawyer street, southeast corner of Belleville avenue . . . . .	65
Sawyer street, north side, 750 feet east of Belleville avenue . . . . .	63
Sawyer street, south side, 418.8 feet east of Mitchell . . . . .	64
School street, southwest corner of Sixth . . . . .	37
Scott street, south side, 325 feet west of County . . . . .	59
Second street, northwest corner of Mill. Flush . . . . .	55
Second street, west side, south of Elm 52 feet . . . . .	52
Second street, west side, south of Spring 74 feet. Flush . . . . .	55
Second street, northwest corner of Coffin. Flush . . . . .	61
Second street, west side, at head of Morgan's lane . . . . .	60
Second street, west side, north of Grinnell 61 feet. Flush . . . . .	63
Second street, west side, north of Potomska 232 feet . . . . .	61
Second street, west side, south of Potomska 122 feet . . . . .	63
Second street, west side, 188 feet south of Blackmer . . . . .	59
Seventh street, southwest corner of Union . . . . .	31
Seventh street, west side, north of Madison 50 feet. Flush . . . . .	36
Shawmut avenue, southwest corner of Willis . . . . .	18
Shawmut avenue, southwest corner of Parker . . . . .	18
Shawmut avenue, west side, head of Locust . . . . .	17
Shawmut avenue, southwest corner of Robeson . . . . .	14
Shawmut avenue, west side, north of Austin . . . . .	13
Shawmut avenue, west side, 497 feet north of Durfee . . . . .	12
Shawmut avenue, southwest corner of Grand . . . . .	11
Shawmut avenue, west side, 203 feet north of Grand . . . . .	11
Shawmut avenue, northwest corner of Plainville road . . . . .	
Sherman street, south side, west of County 314 feet. Flush . . . . .	51
Shore street, west side, 264 feet south of Cove road . . . . .	61
Short street, west side, 321 feet south of Allen . . . . .	34

	Pressure in lbs.
Sisson street, northwest corner of Union . . . . .	25
Sixth street, west side, north of Grinnell 194 feet . . . . .	60
Smith street, southwest corner of Chestnut. Double . . . . .	22
Smith street, southeast corner of Spruce. Double . . . . .	20
Smith street, southeast corner of Shawmut avenue. Flush . . . . .	22
Smith street, south side, east of Park 5 feet . . . . .	29
South street, southwest corner of Acushnet avenue . . . . .	57
South street, southwest corner of Second . . . . .	59
South street, southwest corner of First . . . . .	59
South street, southwest corner of Water . . . . .	63
South street, southwest corner of Prospect . . . . .	61
Spring street, southeast corner of Acushnet avenue . . . . .	51
Spring street, southwest corner of Seventh . . . . .	27
Spring street, southeast corner of Fifth. Flush . . . . .	42
State street, southwest corner of Sycamore . . . . .	31
State street, southwest corner of Pearl. Flush . . . . .	34
Stone street, west side, 208.6 feet south of Allen . . . . .	38
Summer street, northwest corner of North. Flush . . . . .	16
Summer street, northwest corner of Hillman. Flush . . . . .	16
Summer street, southwest corner of Willis. Flush . . . . .	26
Sycamore street, southwest corner of Thomas. Flush . . . . .	30
Sycamore street, southwest corner of Summer. Flush . . . . .	24
Sycamore street, south side, west of Ash 76 feet . . . . .	26
Tallman street, south side, west of Acushnet avenue 224 feet . . . . .	39
Tallman street, southwest corner of Belleville avenue . . . . .	61
Thompson street, southeast corner of Bourne . . . . .	44
Thompson street, south side, 20 feet east of Hall . . . . .	58
Thompson street, south side, 302 feet west of Bonney . . . . .	55
Thompson street, southwest corner of County . . . . .	59
Tremont street, southwest corner of Union . . . . .	26
Tremont street, northwest corner of Maple . . . . .	29
Trinity street, south side, 145 feet west of Cedar . . . . .	19
Union street, southwest corner of Front . . . . .	63
Union street, southwest corner of Water . . . . .	57
Union street, southwest corner of First . . . . .	56
Union street, southwest corner of Second . . . . .	52

	Pressure in lbs.
Union street, southwest corner of Acushnet avenue . . . . .	48
Union street, southwest corner of Sixth . . . . .	38
Union street, southeast corner of Emerson . . . . .	28
Union street, south side, west of James 61 feet . . . . .	21
Union street, southeast corner of Ocean . . . . .	28
Viall street, west side, 368 feet south of Cove . . . . .	54
Vine street, west side, north of Durfee 215 feet . . . . .	6
Walden street, southwest corner of Maxfield. Flush . . . . .	31
Wall street, south side, east of Acushnet avenue 165 feet. Flush . . . . .	62
Walnut street, northwest corner of Front . . . . .	61
Walnut street, southwest corner of Second. Flush . . . . .	57
Walnut street, southwest corner of Fourth . . . . .	48
Walnut street, southwest corner of Seventh . . . . .	38
Wamsutta street, south side, west of Front 200 feet . . . . .	65
Wamsutta street, south side, west of Front 372 feet . . . . .	65
Wamsutta street, south side, east of Acushnet ave. 285 ft. Double . . . . .	64
Ward street, southwest corner of Bay . . . . .	44
Washburn street, southeast corner of Acushnet avenue . . . . .	59
Washburn street, south side, west of North Front 228 feet . . . . .	59
Washington street, southwest corner of County . . . . .	57
Washington street, southwest corner of Crapo . . . . .	56
Washington street, south side, west of Orchard 102 feet. Flush . . . . .	50
Washington street, southeast corner of Dartmouth. Flush . . . . .	46
Water street, southwest corner of Hillman. Flush . . . . .	65
Water street, southwest corner of North . . . . .	64
Water street, west side, south of North 258 feet. Flush . . . . .	63
Water street, northwest corner of Middle. Double . . . . .	62
Water street, southwest corner of Elm. Flush . . . . .	60
Water street, west side, north of Centre 46 feet. Flush . . . . .	50
Water street, west side, north of School 22 feet. Flush . . . . .	60
Water street, northwest corner of Walnut. Flush . . . . .	61
Water street, northwest corner of City wharf. Flush . . . . .	62
Water street, northwest corner of Coffin. Flush . . . . .	64
Water street, west side, head of Pine . . . . .	67
Water street, west side, head of Leonard . . . . .	62
Water street, southwest corner of Howland . . . . .	60



	Pressure in lbs.
Water street, northwest corner of Grinnell . . . . .	60
Water street, northwest corner of Potomska . . . . .	63
Water street, west side, 266 feet south of Potomska . . . . .	63
Water street, northwest corner of Rivet . . . . .	63
Water street, southwest corner of Blackmer . . . . .	63
Water street, northwest corner of Delano . . . . .	62
Water street, west side, head of Gifford . . . . .	62
Weld street, southeast corner of Mt. Pleasant . . . . .	7
Weld street, southwest corner of State . . . . .	43
William street, southwest corner of Bethel . . . . .	51
William street, southwest corner of Second . . . . .	48
William street, southeast corner of Acushnet avenue . . . . .	47
William street, southwest corner of Purchase . . . . .	43
William street, southwest corner of Sixth . . . . .	38
William street, southwest corner of Eighth . . . . .	37
Willis street, southwest corner of Purchase . . . . .	50
Willis street, southeast corner of Pleasant . . . . .	41
Willis street, southwest corner of State . . . . .	28
Willis street, southwest corner of County . . . . .	26
Willis street, southwest corner of Cottage . . . . .	19
Willis street, south side, west of Cedar 200 feet. Flush . . . . .	18
Willow street, southwest corner of Cottage . . . . .	15
Willow street, southeast corner of Shawmut avenue . . . . .	13
Wing street, southwest corner of Fourth. Flush . . . . .	57
Wing street, southwest corner of Sixth . . . . .	57
Winsor street, south side, west of County 455½ feet . . . . .	58
Winsor street, south side, 77½ feet east of Crapo . . . . .	60
Number of flush hydrants . . . . .	141
Number of post hydrants . . . . .	529
Total number of hydrants . . . . .	670









1897—CITY DOCUMENT No. 6.

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ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF NEW BEDFORD,

TOGETHER WITH THE

Superintendent's Annual Report,

FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.

IN SCHOOL COMMITTEE,

December 31, 1896.

*Voted*, That the Secretary prepare the Annual Report of the School Board for the year 1896, and that 1,500 copies of the same be printed.

# Report of the Secretary.

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By direction of the School Committee, I submit to our fellow citizens the following report for the year 1896 :

## STATISTICS.

### I. POPULATION AND VALUATION.

The population of the city (census of 1890) was	40,705
The population of the city (census of 1895) was	55,251
Estimated population of the city (Dec. 1896)	60,000
Valuation of taxable property (1896) was	\$56,034,917

### II. SCHOOL CENSUS.

I give the facts of the school census, although I am confident that some serious errors were made in taking it.

School census, May, 1895 (children between five and fifteen years of age),	10,076
School census, May, 1896 (children between five and fifteen years of age),	10,055
Decrease as shown by the returns,	21

### SCHOOL CENSUS BY WARDS.

	1895.	1896.	
Ward One,	3,645	2,584	1,061 decrease.
Ward Two,	737	1,549	812 increase.
Ward Three,	742	746	4 increase.
Ward Four,	503	892	389 increase.
Ward Five,	838	1,432	594 increase.
Ward Six,	3,611	2,852	759 decrease.



LOCATION OF CHILDREN BETWEEN FIVE AND FIFTEEN YEARS OF AGE, AS TO SCHOOL ATTENDANCE, AS REPORTED BY THE CENSUS ENUMERATORS.

	Attending Public Schools.	Attending Private Schools.	Attending no School.
Ward One,	1,026	1,082	476
Ward Two,	667	638	244
Ward Three,	635	90	21
Ward Four,	753	53	86
Ward Five,	1,031	195	206
Ward Six,	1,705	700	447
	<hr/> 5,817	<hr/> 2,758	<hr/> 1,480

Children reported as attending no school are presumably those who are between five and seven years of age, and those over fourteen who have completed their school requirements.

REMARKS UPON THE SCHOOL CENSUS.

While I do not doubt that those who took the school census tried to perform their duty faithfully, I feel that the returns do not show the actual number of children in the city last May between the ages of five and fifteen years. An actual loss is shown, while there was an actual increase in the school attendance of the city.

I realize that it is no easy matter to take the census accurately owing to the great number of inhabitants who do not understand the English language, and the ignorance of many of them of the object of the census. Many of them are suspicious of the reasons for the inquiries that are made, and withhold information. It requires patience and shrewdness on the part of the takers, and frequently the employment of an interpreter to get the desired information.

As the returns are made by wards, and the ward lines were different when the last census was taken, from the lines of preceding years, it has made it impossible to locate the errors. Great care should be taken in enumerat-

ing the next census that the returns may be complete and accurate. The statutes require this census to be compiled. It is of much value to the State Board of Education and of considerable importance to me. It loses much of its value, however, if suspicion attaches itself to its accuracy.

### III. SCHOOL ORGANIZATION.

High,	1
Training school for teachers,	1
Grammar,	4
Primary,	12
Country,	5
Mill,	2

### IV. SCHOOL BUILDINGS.

Occupied by the schools,	23
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#### ROOMS USED FOR SCHOOL PURPOSES (DAY SCHOOLS) INCLUDING HALLS AND RECITATION ROOMS.

High,	17
Training,	9
Grammar,	46
Primary,	88
Mill,	4
Country,	9
Manual training, and cooking,	2
Rooms unoccupied,	4
Total,	180
Rooms used for both day and evening schools,	30
Rooms used for evening drawing school,	3

### V. SEATS.

	Seats Occupied	Seats Unoccupied.
High school,	368	30
Grammar schools,	1,808	190
Primary schools,	3,871	279
Training school,	386	28
Mill schools,	152	11
Country schools,	239	62
Total,	6,824	600

## VI. TEACHERS.

Whole number in service, Dec. 23, 1896 :	
High school,	14
Training school: Regular teachers for the year, 6.	
average number of pupil-teachers under pay, 6.	12
Grammar schools,	47
Primary schools,	94
Country schools,	9
Mill schools,	4
Special teachers,	8
Temporary assistants,	1
Evening schools,	57
Total,	246

## VII. PUPILS.

## DAY SCHOOLS—1896.

Whole number of pupils enrolled of all ages,	8,298
Average number of pupils belonging,	6,404
Average daily attendance,	5,988
Per cent. of attendance,	93.5
Number of half-days absence,	168,622
Number cases of tardiness,	14,572
Number cases of dismissal,	30,016
Number cases of truancy reported by teachers,	262
Number cases of corporal punishment,	880
Number cases of suspension,	13
Half-days absence of teachers,	1,313
Number cases of tardiness by teachers,	173
Number visits made the schools by the Superintendent,	626
Number visits made the schools by the School Committee,	462
Number visits made the schools by parents and others,	4,402

## EVENING SCHOOLS—1896.

Whole number pupils enrolled,	2,385
Average number belonging,	1,159
Average nightly attendance,	937
Per cent. of attendance,	80.8
Total nights absence,	8,911
Number cases of tardiness,	447
Number visits by Superintendent,	19
Number visits by School Committee,	117

## EVENING DRAWING SCHOOL—1896.

Whole number pupils enrolled,	126
Average number belonging,	58
Average nightly attendance,	44
Per cent. of attendance,	76
Number visits made by the Superintendent,	4
Number visits made by the School Committee,	8

## PUBLIC SCHOOLS.

	1896.	1895.	
Enrollment of pupils,	8,298	7,860	increase 438
Average number belonging,	6,526	6,005	" 521
Average daily attendance,	6,099	5,542	" 557
Per cent. of attendance,	93.4	92.3	" 1.1
Number cases tardiness,	14,572	16,003	dec. 1,431
Number cases dismissals,	30,016	38,184	dec. 8,168

## PRIVATE AND PAROCHIAL SCHOOLS.

	1896.	1895.	Increase.
Enrollment of pupils,	3,635	2,978	657
Average number belonging,	3,058	2,525	533
Average daily attendance,	2,897	2,339	558
Per cent. of daily attendance,	94.7	92.6	2.1

## PUBLIC, PRIVATE AND PAROCHIAL SCHOOLS.

	1896.	1895.	Increase.
Enrollment of pupils,	11,933	10,838	1,095
Average number belonging,	9,584	8,530	1,054
Average daily attendance,	8,996	7,881	1,115
Per cent. of daily attendance,	93.8	92.4	1.4

## COST OF INSTRUCTION PER SCHOLAR BY SCHOOLS.

In this connection, the cost of instruction per scholar is based upon the average number belonging to each school during the year, and the amount expended for the hire of teachers, fuel, care of schoolhouses, books and supplies (except those furnished from the income of the Sylvia Ann Howland fund), the term, "care of schoolhouses," including only the salaries of janitors.

Elsewhere in the report is given the cost, by departments, of each pupil, based on the average number belonging and the total amount expended for the maintenance of each department during the year. This last

computation furnishes the basis upon which tuition of non-residents will be collected.

TABLE I. The cost of maintenance of each pupil in the High school for the year has been \$56.44.

Grammar Department :

Fifth Street,	\$25.94
Middle Street,	27.99
Parker Street,	23.15
Thompson Street,	17.16
Harrington Normal and Training School,	31.56

Primary Department :

Acushnet Avenue,	16.37
I. W. Benjamin,	14.49
Cedar Street,	16.17
Cedar Grove Street,	15.48
Clark Street,	14.26
Cannonville,	18.76
Dartmouth Street,	17.03
Thomas A. Greene,	18.26
Sylvia Ann Howland,	20.67
Harrington Normal and Training,	19.53
Merrimac Street,	18.99
Maxfield Street,	17.65
Thompson Street,	15.16

Ungraded Schools :

Acushnet,	30.92
Clark's Point,	22.93
North,	26.88
Rockdale,	30.05
Plainville,	47.83
North Mill,	23.54
South Mill,	16.76

Evening Schools :

Cedar Grove Street,	3.24
Fifth Street,	3.97
Merrimac Street,	3.45
Parker Street,	5.61
Thompson Street,	3.17
Evening Drawing,	10.32

The average cost of a	
Grammar school pupil was	24.19
Primary school pupil was	16.54
Ungraded school pupil was	29.81
Mill school pupil was	19.60
Elementary evening school pupil was	3.59
Evening drawing school pupil was	10.32
Day school pupil was	22.57

TABLE II. The average cost per pupil by departments, based on the average number belonging and the total expenditures for each department, was as follows :

High school,	\$64.72
Grammar schools,	28.11
Primary schools,	21.14
Ungraded schools,	37.98
Evening elementary schools,	4.41
Evening drawing schools,	14.08
Average cost of a day school pupil,	25.87
Average cost of an evening school pupil, including drawing school,	4.87

## RECEIPTS AND EXPENDITURES FOR 1896.

### RECEIPTS.

General and special appropriations as follows :

For teachers' salaries,	\$116,899.00
Incidentals (including salaries of officers and janitors, books, supplies, etc.),	45,000.00
Repairs of buildings,	8,700.00
Middle Street school (special),	1,200.00
Merrimac Street school (special),	4,725.00
Clark Street school (special),	2,100.00
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	\$178,624.00

### EXPENDITURES.

For teachers' salaries :

Day schools,	\$111,584.04	
Evening schools,	4,122.00	
	<hr/>	\$115,706.04



## For incidentals :

Salaries of officers, including truant officers, messenger, and clerk at High school,	\$6,868.35
Salaries of janitors day and evening schools,	12,757.65
Books and supplies,	7,512.94
Heating apparatus,	1,314.65
Lighting schools,	977.88
Fuel for schools,	6,691.59
Cooking school,	189.43
Manual Training school,	151.50
Miscellaneous, including rent of School Com- mittee rooms and other rooms used for school purposes, janitors' supplies, school furniture, etc.,	7,959.30
Repairs of buildings,	7,942.10
Middle Street school (special),	1,200.00
Merrimac Street school (special),	4,725.00
Clark Street school (special),	1,852.32
	<hr/> 60,142.71
	\$175,848.75
Summary :	
Receipts,	\$178,624.00
Expenditures,	175,848.75
	<hr/>
Balance,	\$2,775.25

## DOG FUND.

Balance, Jan. 1, 1896,	\$3,722.88
Received, Feb. 17, 1896,	1,239.41
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	\$4,962.29
Expenditures for 1896,	2,674.71
	<hr/>
Balance,	\$2,287.58

## RECEIVED

From non-resident pupils,	\$822.97
Sale of books and supplies,	33.22
Sale of junk,	4.43
Sale of portable coal-bins,	5.00
	<hr/>
	\$865.62

The above receipts have been turned in to the City Treasurer, and credited to unappropriated funds.

## SYLVIA ANN HOWLAND EDUCATIONAL FUND.

Balance of income on hand, Jan. 1, 1896,	\$251.31
Interest for the year,	3,000.00
Received from sale of supplies,	34.81
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	\$3,286.11
Expenditures for the year,	2,620.16
	<hr/>
Balance, Jan. 1, 1897,	\$665.95
Cost of books and supplies during 1896,	\$2,620.16
Cost of books and supplies in stock, Jan. 1, 1896,	190.90
	<hr/>
	\$2,811.06
Cost of books and supplies charged to schools, 1896,	\$2,645.65
Cost of books and supplies in stock, Jan. 1, 1897,	130.60
Cash receipts from sale of supplies,	34.81
	<hr/>
	\$2,811.06

Disbursements to the several schools, and otherwise,  
are as follows :

High school,	\$213.88
Fifth Street Grammar school,	111.60
Middle Street Grammar school,	183.91
Parker Street Grammar school,	280.08
Thompson Street Grammar school,	336.67
Harrington Training school,	80.07
Acushnet Avenue Primary school,	45.30
I. W. Benjamin Primary school,	107.88
Cedar Grove Street Primary school,	222.04
Cedar Street Primary school,	61.30
Clark Street Primary school,	96.84
Cannonville Primary school,	27.52
Dartmouth Street Primary school,	37.15
Thomas A. Greene Primary school,	14.54
S. A. Howland Primary school,	44.03
Merrimac Street Primary school,	114.64
Maxfield Street Primary school,	61.86
Acushnet school,	19.39
Clark's Point school,	.24
North school,	18.11

Plainville school,	32.13
Rockdale school,	41.87
North Mill school,	40.64
South Mill school,	36.29
Care of musical instruments,	351.00
Pedagogical library,	42.30
Miscellaneous supplies,	24.37
Cash sales,	34.81
Stock on hand, Jan. 1, 1897,	130.60
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	\$2,811.06

## DETAILED STATEMENT.

Outlay of the School Committee from the income of the Sylvia Ann Howland fund, from Jan. 1, 1896, to Jan. 1, 1897 :

## BOOKS AND PERIODICALS.

American Book Co.,	\$83.03
American Humane Edu. Society,	3.75
Appleton, D. & Co.,	2.56
Alpha Publishing Co.,	2.00
Boston School Supply Co.,	61.53
Brownell, D. L.,	4.25
The Century Co.,	12.50
Ditson Company, Oliver,	13.50
Educational Publishing Co.,	5.49
Ginn & Co.,	151.79
Houghton, Mifflin & Co.,	251.69
Hutchinson, H. S. & Co.,	94.41
Harper & Bros.,	53.17
Heath, D. C. & Co.,	43.87
Hammett, J. L. & Co.,	11.40
Leach, Shewell & Sanborn,	63.04
Lee & Shepard,	16.70
Lothrop Publishing Co.,	.87
Mason, Perry & Co.,	85.58
Miller, Samuel E.,	32.50
Maynard, Merrill & Co.,	16.20
Macmillan & Co.,	1.73
Mass. Soc. for Prevention of Cruelty to Animals,	.50
Prang Educational Co.,	2.78
Russell Publishing Co.,	2.00
Silver, Burdett & Co.,	33.80

Scribner's Sons, Chas.,	11.15	
Taber, R. W.,	54.23	
University Publishing Co.,	18.98	
Werner School Book Co.,	65.90	
Whidden, Bradlee,	.90	\$1,201.80

## PEDAGOGICAL LIBRARY.

Appleton, D. & Co.,	\$14.72	
Boston School Supply Co.,	3.38	
Hutchinson, H. S. & Co.,	1.35	
Harper & Bros.,	.85	
Heath, D. C. & Co.,	.50	
Lee & Shepard,	1.50	
Natural Science Association of America,	20.00	42.30

## MUSIC DEPARTMENT.

Ginn & Co.,	\$245.59	
Gorham, Jas. H.,	54.46	
Haynes, John C.,	9.00	
Leland, A. M.,	8.40	
Peirce, George,	401.00	
Silver, Burdett & Co.,	3.75	722.20

## BINDING AND COVERING BOOKS.

Briggs & Lawrence,	\$2.70	
Holden Patent Book Cover Co.,	156.02	
Hutchinson, H. S. & Co.,	88.85	247.57

## PRIMARY DEPARTMENT.

Briggs & Lawrence,	\$ .17	
Hammett, J. L. & Co.,	1.30	
Perry, Geo. S. & Co.,	144.03	
The Taber Art Co.,	2.00	147.50

## APPARATUS.

Almy, James T., estate of,	\$88.00	
Eimer & Amend,	25.12	
Franklin Educational Co.,	2.70	
Hillman, Washburn & Co.,	2.00	
Hammett, J. L. & Co.,	14.50	
Sherman, C. R. & Son,	3.00	135.32

## MISCELLANEOUS.

The American Book Co.,	\$ .11	
Appleton, D. & Co.,	.17	
Boston School Supply Co.,	24.00	
Collins, Williston H.,	9.00	

Crabtree, Katharine M.,	3.00	
Ditson, O. & Co.,	.12	
Elmer & Amend,	.40	
Ginn & Co.,	.17	
Hutchinson, H. S. & Co.,	5.54	
Hammett, J. L. & Co.,	12.79	
Heath, D. C. & Co.,	15.41	
Leach, Shewell & Sanborn,	.22	
McAllister, T. H.,	16.40	
Richter, Geo. H.,	.75	
Scribner's Sons, Charles,	.14	
Taber, Robert W.,	.25	
Western Publishing House,	35.00	123.47
		<hr/>
		\$2,611.75

## TEXT BOOKS AND SUPPLIES.

## STATEMENT.

Cost of books and supplies purchased during 1896,	\$7,512.94
Cost of books and supplies in stock, Jan. 1, 1896,	1,778.32
	<hr/>
	\$9,291.26
Cost of books and supplies charged to schools in 1896,	\$6,975.53
Cost of books and supplies in stock, Jan. 1, 1896,	2,282.51
Cash receipts from the sale of books and supplies,	33.22
	<hr/>
	\$9,291.26

The cost in detail of books and supplies furnished the several schools for the year 1896 is as follows :

	Supplies.	Books.	Total.
High school,	\$571.84	\$491.11	\$1,062.95
Fifth Street Grammar school,	267.07	443.39	710.46
Middle Street Grammar school,	215.78	504.41	721.19
Parker Street Grammar school,	303.29	781.85	1,085.14
Thompson Street Grammar school,	199.37	469.85	667.34
Acushnet Avenue Primary school,	76.81	107.25	184.06
I. W. Benjamin Primary school,	117.10	99.48	216.58
Cedar Street Primary school,	64.17	81.30	145.47
Cedar Grove Street Primary school,	131.48	189.05	320.53
Clark Street Primary school,	61.57	117.80	179.37
Cannonville Primary school,	23.10	21.39	44.49

Dartmouth Street Primary school,	96.43	76.29	172.72
Thomas A. Greene Primary school,	49.34	70.71	120.05
Sylvia Ann Howland Primary school,	43.72	44.36	88.08
Merrimac Street Primary school,	71.67	83.57	155.24
Maxfield Street Primary school,	55.93	60.80	116.73
Harrington Training school,	112.36	141.05	252.41
North Mill school,	13.18	30.33	43.51
South Mill school,	9.10	44.87	53.97
Acushnet school,	26.93	59.85	86.78
Clark's Point school,	19.72	40.70	60.42
North school,	27.49	56.44	83.93
Plainville school,	51.47	84.18	135.65
Rockdale school,	15.84	27.56	43.40
Cedar Grove Street Evening school,	3.87	44.61	48.48
Parker Street Evening school,	4.01	6.96	10.97
Fifth Street Evening school,	10.17	19.97	30.14
Merrimac Street Evening school,	1.30	12.32	13.62
Thompson Street Evening school,	6.85	60.40	67.25
Evening Drawing school,	25.65		25.65
Manual Training,	16.16		16.16
Cooking,	9.91		9.91
	<u>\$2,703.68</u>	<u>\$4,271.85</u>	<u>\$6,975.73</u>

The average cost per pupil in the different departments of the schools, for books and supplies, has been as follows :

High school,	\$3.36
Grammar schools,	1.68
Primary schools,	.44
Country schools,	1.83
Mill schools,	.62
Average for day schools,	1.06
Average for evening schools,	.15
Average for evening drawing school,	.44

#### REMARKS ON EXPENDITURES.

The cost per pupil the past year, including all expenditures of money received from the city, but not including that received from the income of the Sylvia Ann Howland Fund or Dog Fund, was slightly larger than for the previous year. The Department was granted in regular and



special appropriations, \$178,624. Of this sum there was expended \$175,848.75, leaving an unexpended sum of \$2,775.25, which has been returned and placed to the credit of unappropriated funds.

It is estimated that the regular expenses of the Department for 1897 will be \$181,300,—an increase of \$11,800. Of this increase, \$9,001 is for pay of teachers; \$1,057.90 for repairs of buildings; and the remainder, \$1,642.10, for incidentals, which naturally requires a larger expenditure each year as the schools increase in number.

The increase in the item, “pay of teachers,” for 1897, is proportionately larger than usual. This is due to the employment of an additional teacher in the High school for the commercial course and a man for the department of mathematics; to the addition of a teacher to the Harrington Normal and Training school, and to placing assistants in all the country schools where the number of pupils exceed thirty-five. The remainder of the item is due to the regular growth in the number of schools which requires more teachers each year.

The expenditures of the Department may appear to many as larger than necessary; but I am sure that inquiry will show that this is not the case. The comparative expenditure per pupil in New Bedford compared with the amount expended in most cities of New England, as I have shown in other reports, is not large. If the amount expended on each child of school age in the city is compared with the amount expended in many others, New Bedford stands low in the list. This is due to the large number of pupils who attend private and parochial schools in the city.

It is not to be gainsaid, however, that the cost of the schools in all our municipalities is large and increasing. They should therefore be administered on sound business principles. Sound school economy does not mean cheap

schools; it means the best of schools—schools in which the health of the children is well cared for; schools that are taught by trained and enthusiastic teachers. Such schools the people have always shown a willingness to support, and for the good of their children and the State they will bear still greater burdens than they have in the past.

#### SCHOOL BUILDINGS.

The city now owns twenty-four schoolhouses varying in size from a one-room building to a seventeen-room building. One of these on William street is not now in use. Part of these are wood, part brick. Two more eight-room brick buildings are under process of construction,—one on Dartmouth street, one on Phillips avenue. Plans for another eight-room brick building to be located on Brock avenue have been accepted, and it is desirable that its construction be hastened as rapidly as possible.

All the schoolhouses that have been built within a few years have been constructed with special regard to sanitary requirements. The sanitary arrangements have been improved in some of the older ones. But as yet the methods of ventilation in all of the grammar and country schools, as well as in some of the primary, are unscientific and inadequate, and the pupils are exposed alternately to cold draughts and an impure atmosphere.

Notwithstanding all that has been done in the past seven or eight years in building new schoolhouses, and in enlarging others, construction is at least two years behind the actual needs of the School Department. Steps ought to be taken at once to remedy this condition of affairs. As I have stated in previous reports, I believe it is poor economy for the city to hire outside rooms and fit them up for school purposes. The welfare of the children located in

these quarters cannot be so well provided for as in schoolhouses built for the purpose.

The estimated value of the schoolbuildings and lots owned by the city, including the two new schoolhouses under construction, but not including any furniture, is \$788,400.00.

Respectfully submitted,

WM. E. HATCH, Secretary.

# NEW BEDFORD HIGH SCHOOL GRADUATION EXERCISES.

JUNE 26, 1896.

PRAYER BY REV. PAUL REVERE FROTHINGHAM.

1. SALUTATORY. Greetings.  
ETHEL BLISS.
2. ESSAY. The Influence of National Holidays.  
EDWARD WILLIS SHERMAN.
3. SONG. The Red Scarf. Arranged from Theo. Bonheur.  
BY THE SCHOOL.
4. ESSAY. Pictures of Memory.  
ROSE MARY MEANEY, Class Essayist.\*
5. SONG. The Water Lily. Arranged from Gade.  
BY THE SCHOOL.
6. BOURNE PRIZE ESSAY. The Heroism of Woman.  
MARY JOHNSON READ.
7. SONG. Vesper Bells. *Eichberg.*  
BY THE SCHOOL.
8. ORATION. American Citizenship.  
JAMES TOWER KEEN, Class Orator.\*
9. SONGS. { *a.* The Day of Glory. Arranged from "Norma."  
          { *b.* Sanctus. Arranged from 'Tours.  
BY THE SCHOOL.
10. PRESENTATION OF DIPLOMAS.  
BY HIS HONOR, MAYOR PARKER.
11. CLASS SONG. Words by Calvin Lewis Ashley.  
| Music by Lena Russell Wilson.

School life oft we little treasure  
As we pass its moments through;  
Oft it seems more pain than pleasure,  
And its joys seem ever few.

*Chorus:*—Tho' our ties must soon be broken,  
May we aye in this be one,—  
In our purpose, bravely spoken,  
All save noblest things to shun.

But the time of parting nearing,  
As the past we faint recall,  
Ills and troubles disappearing  
Make it shine one brightness all.

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\*The class elect the Class Orator and Class Essayist.

So as life's years swiftly vanish,  
May we all with cheerful will  
Every ill remembrance banish,  
But each pleasant, cherish still.

And such effort shall requite us  
When, reviewing life, we find  
All the years, as these, delight us,  
These we now must leave behind.

12. VALEDICTORY. The Class Motto—Nihil sed Nobilissimum  
OLIVE FRANKLIN SMITH.

## GRADUATES, CLASS OF 1896.

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*Nihil sed Nobilissimum.*

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Calvin Lewis Ashley,	Mary Eliza Boardman,
Charles Weeden Barney,	Ethel Elma Clapp,
Morgan Barney,	Lucy Coffin Caswell,
Charles Edward Bennett,	Helen Loretta Corish,
William Henry Bly,	Helen Ashley Gammons,
James Miller Bonnar,	Nannie Chadwick Gifford,
Ralph Standish Bryden,	Edith Russell Hart,
Lynton Morton Buffinton,	Edith Evelyn Hathaway,
Warren Handel Cudworth,	Susan Malvina Hathaway,
Herman Reynolds Hunt,	Alice Earle Higham,
James Tower Keen,	Alice Kelleher,
Louis Winthrop Macy,	Edith Presby Lewis,
George Marsden,	Mary Francis McIntyre,
Henry Oliver Mason,	Rose Mary Meaney,
Ira Francis Phillips,	Mabel Irene Paine,
Charles Abraham Russell,	Mary Emma Peckham,
Edward Willis Sherman,	Sylvia Cross Pierce,
James Herbert Smith,	Mary Johnson Read,
Daniel Augustus Spooner,	Olive Franklin Smith,
John Swift Sylvia,	Minnie Helena Smythe,
Ambrose Franklin Tripp,	Edith Spooner,
Edwin Prescott Tripp,	Emma Louise Spooner,
Robert Earle Tucker,	Harriet Jennings Thorpe,
	Mary Elizabeth Weston,
Helen Adeline Andrews,†	Lena Russell Wilson,
Jane Rebecca Baker,	Mary Anna Wilson,
Ethel Bliss,	Harriet Madiah Young.

## RECIPIENTS OF CERTIFICATES.

Charles Amos Baker,	Mabel Ellen Lee,
Elizabeth Bly Davis,	Ruth Metcalf,
	Alice Sommers Nye.



## GRADUATING EXERCISES HARRINGTON TRAIN- ING SCHOOL.

JUNE 23, 1896.

*Programme :*

### SUBJECT—LITERATURE.

THE TEACHING OF LITERATURE. Essay.	MISS GIFFORD.
LONGFELLOW. Class Exercise. First Grade.	MISS ASHLEY.
HIAWATHA. Class Exercise. Second Grade.	MISS PAULDING.
EVANGELINE. Class Exercise. Sixth Grade.	MISS MURKLAND.
THE TEACHER'S POWER TO MOLD CHARACTER. Essay.	
	MISS HATHAWAY.
PRESENTATION OF DIPLOMAS.	MR. F. A. MILLIKEN.
Chairman Training School Committee.	
ADDRESS.	MR. T. M. BALLIET.
Superintendent of Schools, Springfield, Mass.	

### GRADUATES.

JANUARY 31, 1896.

Carrie Wellwood Bliss, Mary Leonora Rogers, Ruth Elmira Wilde.

JUNE 23, 1896.

Grace Bartlett Ashley,	Ella Warren Keene,
Susan Macomber Gifford,	Annie Laura Murkland,
Bertha Chase Hathaway,	Sylvia Wood Paulding.

### IN SCHOOL COMMITTEE,

December 31, 1896.

*Resolved,* That the thanks of the Committee are due, and are hereby tendered to His Honor, Mayor Parker, for the courteous and impartial manner in which he has presided at our meetings during the past year.

*Resolved,* That the thanks of this Board are hereby tendered Frank A. Milliken, Esq., its Vice Chairman, for the able and impartial manner with which he has presided over the deliberations of this body during the past year.

*Resolved,* That the thanks of the Board be, and they are hereby tendered the Secretary, for his courtesy and fidelity in the discharge of his duties.

## NEW BEDFORD PUBLIC SCHOOLS.

RATES OF TUITION FOR NON-RESIDENT PUPILS, 1897.

	First Term.	Second Term.	Third Term.	For the Year.
High School,	\$19.41	\$19.41	\$25.90	\$64.72
Grammar schools,	8.43	8.43	11.25	28.11
Primary schools,	6.34	6.34	8.46	21.14
Ungraded schools,	11.39	11.39	15.20	37.98
Evening Drawing School,				14.08

## RULES GOVERNING TEACHERS' SALARIES.

	Maximum.	Minimum.
Principal of High school,	\$2,750	
Sub-master of High school,	1,600	
Science teacher of High school,	1,600	
Teacher of mathematics of High school,	1,500	
Teacher of commercial course, High school,	1,200	
Lady assistants of High school,	900	\$650
Military instructor of High school,	300	
Principals of complete Grammar schools,	1,900	
Principals of partial Grammar schools,	1,200	
Principals' assistant of Grammar schools,	675	
Assistants of Grammar schools,	600	425
Principals of Primary schools,	600 to 875	
Assistants of Primary schools,	550	375
Principal of Training school,	1,500	
Vice Principal of Training school,	1,200	1,000
Senior in Training school,	4 per week.	
Ungraded schools,	425 to 700	
Principals of Evening schools,	3.00 to 4.50 per night.	
Assistants of Evening schools,	1.50 per night.	
Supervisor of drawing,	1,300	
Teacher of drawing in High school,	800	
Supervisor of music,	1,900	
Teachers of sewing,	525 to 600	
Cooking teacher,	600	
Manual training teacher,	1,400	

The salary of Primary school principal of a four-room building is \$600 per year, which is increased at the rate of \$25 for each additional room.

The salaries of assistant teachers in the High school are increased at the rate of \$50 per year until the maximum (\$900) is reached.

The minimum yearly salary of a Grammar school assistant is fixed at \$425, and the yearly advance is \$25 per year until a yearly salary of \$500 is reached; the annual increase is then \$50 per annum until the maximum (\$600) is reached. Principals' assistants only are paid \$675.

The minimum yearly salary of a Primary school assistant is fixed at \$375, and the yearly advance is \$25 per

year until a yearly salary of \$450 is reached; the annual increase is then \$50 per annum until the maximum (\$550) is reached.

## DEPARTMENT OF PUBLIC SCHOOLS.

### BRIEF DESCRIPTION OF THE SCHOOLHOUSES, WITH THEIR ACCOMMODATIONS AND CONDITIONS.

	SCHOOLS.	NAMED FOR.	Material.	Number of Stories.	No. of School Rooms.	No. of Recitation Rooms.	No. of Assembly Halls.	No. of Seats.	CONDITION.
1	Acushnet.	Avenue.	Brick.	2	10				Good.
2	Acushnet.	Location.	Wood.	2	3				Good.
3	I. W. Benjamin.	Isaac W. Benjamin.	Brick.	3	12				Good.
4	Cedar.	Street.	Wood.	2	6				Good.
5	Cedar Grove.	Street.	Brick.	3	15				Good.
6	Clark.	Street.	Brick.	2	8				New.
7	Cannonville.	Location.	Wood.	2	2				Fair.
8	Clark's Point.	Location.	Wood.	1	1				Poor.
9	Dartmouth.	Street.	Wood.	2	8				Good.
10	Fifth.	Street.	Brick.	3	10		1		Good.
11	Thomas A. Greene.	Thomas A. Greene.	Brick.	2	8				Good.
12	High	Grades.	Brick.	3	10	4	1		Good.
13	Harrington Memorial.	Henry F. Harrington.	Brick.	3	8		1		Good.
14	Sylvia Ann Howland.	Sylvia Ann Howland.	Brick.	3	7				Good.
15	Linden.	Street.	Wood.	2	4				Old.
16	Middle.	Street.	Brick.	3	9		1		Good.
17	Merrimac.	Street.	Brick.	2	6				Good.
18	Maxfield.	Street.	Brick.	2	4				Good.
19	North.	Location.	Wood.	1	2				Good.
20	Parker.	Street.	Brick.	3	12		1		Good.
21	Plainville.	Location.	Wood.	1	1				Fair.
22	Rockdale.	Location.	Wood.	1	2				Fair.
23	Thompson.	Street.	Brick.	3	10				Good.
24	William.	Street.	Wood.	2	4				Poor, unused.
25	Phillips.	Avenue.	Brick.	2	8				Under constr.
26	Dunbar.	Street.	Brick.	2	8				Under constr.

## CALENDAR, 1897.

Winter term begins Jan. 11, 1897; ends April 2, 1897.

Summer term begins April 12, 1897; ends July 2, 1897.

Fall term begins Sept. 7, 1897; ends Dec. 24, 1897.

## VACATIONS.

April 3, 1897, to April 12, 1897.

July 3, 1897, to Sept. 7, 1897.

Dec. 25, 1897, to Jan. 10, 1898.

## HOLIDAYS.

Every Saturday; Washington's Birthday; Patriot's Day; Memorial Day; from Wednesday noon before Thanksgiving for the remainder of the week.

## SCHOOL SESSIONS.

Grammar, Manual Training and Mill schools: From March 1 to November 1, 9 A. M. to 11.45 A. M., 1.45 P. M. to 4 P. M.; from November 1 to March 1, 9 A. M. to 11.45 A. M., 1.30 P. M. to 3.45 P. M.

Primary schools: From March 1 to November 1, 9 A. M. to 12 M., 2 P. M. to 4 P. M.; from November 1 to March 1, 9 A. M. to 11.40 A. M. without recess, 1.30 P. M. to 3.30 P. M.

High school: 8.30 A. M. to 1.30 P. M., during the whole year.

Country schools: Sessions as prescribed by the committee on Ungraded schools, subject to the approval of the Board.

The signal for no session is two strokes of the fire alarm once repeated (2-2).

When given at 8.15 A. M., the morning session shall be omitted. When given at 12.45 P. M., the afternoon session shall be omitted.

This regulation does not apply to the High school or to the Ungraded schools, except those designated by the Board.

The no-session signal on stormy days shall not apply to the sessions of the Manual Training or the Cooking schools; and pupils attending those schools shall not be excused for non-attendance upon them on account of the no-session signal.

## DEPARTMENT OF PUBLIC SCHOOLS.

EVENING SCHOOLS. REPORT FOR YEAR BEGINNING JANUARY 6, 1896, ENDING DECEMBER 23, 1896.

	NAME OF SCHOOL.		Total enrollment for year.	Average No. belonging.	Av. nightly attendance.	Per cent. of attendance.	Total nights absence.	No. cases of tardiness.	No. cases of dismissal.	No. cases of truancy.	No. cases of corporal punishment.	Nights teacher was absent.	Times teacher was tardy.	No. visits by Superintendent.	No. visits by members of committee.
	Boys.	Girls.													
1	405	314	353	297	84.2	2,227	49	7				1	3	8	38
2	205	58	87	68	77	780	127	8						4	18
3	224	123	152	128	84.2	958	122					2	8	6	26
4	230	125	259	208	80	2,067	249							7	49
5	453	248	308	236	76.9	2,879									
	1,517	868	1,159	937	80.8	8,911						3	11	19	117
	102	24	58	44	76	525								4	8
	Evening Drawing School.														



## DEPARTMENT OF PUBLIC SCHOOLS.

REPORT FOR YEAR BEGINNING JANUARY 6, 1896, ENDING DECEMBER 23, 1896.

NAME OF SCHOOL.	Total enrollment for year.		Average No. belonging.	Average daily attendance.	Per cent. of attendance.	Total half days absence.	No. cases of tardiness.	No. cases of dismissal.	No. cases of truancy.	No. cases of corporal punishment.	Half days teacher was absent.	Times teacher was tardy.	No. visits by Superintendent.	No. visits by members of committee.	No. visits by parents and others.	Suspensions.
	Boys.	Girls.														
<b>The High.</b>	175	287	316	306	96.8	2,027	896	240	3		29	44	32	12	915	5
Fifth Street Grammar.	248	281	414	390	94.1	9,854	1,121	1,373	24	27	103	14	91	62	519	
Middle Street Grammar.	224	264	381	362	94.4	8,242	1,234	946	26	63	32	12	34	42	448	
Parker Street Grammar.	330	311	494.6	483.9	97.9	4,248	481	717	3	14	107	8	43	71	618	4
Parker Street Annex, Lowe Block.	65	70	71.2	67.2	94.4	2,076	289	88	2	14	13	2	15	2	21	3
Parker Street Annex, Clark Street.	96	26	48.7	45.2	93	543	21	43		50	102	4	51	69	281	5
Thompson Street Grammar.	176	200	305.7	292	95.7	5,733	313	242	12	11			10	11	139	
Harrington Training and Normal.	39	49	82.5	77	93.3	2,658	323	68	2							
<b>Avesnet Avenue Primary.</b>	1,108	1,201	1,797	1,717.3	95.5	32,774	3,782	3,477	69	179	377	41	246	257	2,031	7
I. W. Benjamin Primary.	269	280	408	429	92	14,800	928	1,692	4	47	28	3	23	4	58	
Cedar Grove Street Primary.	410	351	585	547	93.5	15,687	779	10,104	12	33	68	5	29	4	57	
Cedar Street Primary.	463	462	638.8	609.3	92.5	19,680	1,350	8,112	92	142	165	11	44	26	138	
Clark Street Primary.	134	170	296.2	247.5	92.9	7,470	701	210	8	29	165	6	20	5	80	
Cannonville Primary.	208	185	321.9	298.5	93	8,026	838	1,456	7	65	4	7	29	33	66	
Dartmouth Street Primary.	30	35	71	65.5	92.3	2,160	264	74		9	10		4		19	
Thomas A. Greene Primary.	201	201	375.6	348.2	92.7	10,938	570	466	36	71	49	2	18	6	98	
	182	144	277	254	91.7	9,291	834	334	8	50	38	20	22		94	1



## PAROCHIAL AND PRIVATE SCHOOLS.

REPORT FOR YEAR BEGINNING JANUARY 6, 1896, ENDING  
DECEMBER 23, 1896.

PAROCHIAL SCHOOLS.	Total enrollment for year		Average num- ber belong- ing.	Average daily attendance.	Per cent. of attendance.	Under 5 years.	Between 5 and 8 years.	Between 8 and 14 years.	Between 14 and 15 years.	Between 15 and 16 years.	Over 16 years.
	Boys.	Girls.									
St. Joseph's.	400	416	706	675	95.6		370	220	59	31	26
St. Mary's.	238	297	501	473	94.4		163	291	15	2	2
Sacred Heart.	440	445	760	740	97.3	4	222	639	12	6	2
St. Hyacinth.	202	295	307	280	91.2		76	226	5		
French.	160	162	300	283	94.3		85	237			
Guardian Angel.	107	148	227	204	89.8	27	146	82			
St. Mary's Home.	41	32	73	73	100		35	34		4	
	1,588	1,795	2,874	2,728	94.9	31	1,097	1,729	91	43	30
PRIVATE SCHOOLS.	115	137	184	169	91.8	29	46	77	36	21	42

PER CENT. OF PROMOTIONS IN THE ELEMEN-  
TARY SCHOOLS.

	9th Grade.	8th Grade.	7th Grade.	6th Grade.	5th Grade.	4th Grade.	3d Grade.	2d Grade.	1st Grade.
Fifth street,	90.4	93.8	85.7	86.2	89.3				
Middle street.	83.3	94.1	90.4	88.2	94.2				
Parker street,	83.1	85.7	87.5	87.7	90.2				
Thompson street,			86.2	86.5	88.1			92.1	59.1
Harrington,				78.4	86.9	75.7	91.5	75.4	71.6
Acushnet avenue,						95.8	92.7	87.7	59.7
I. W. Benjamin,						96.2	75.7	83.2	61.7
Cedar street,						95.4	91.8	91.1	57.1
Cedar Grove street,						79.5	83.8	82.8	65.5
Cannonville,						91.6	100	100	68.9
Dartmouth street,						95.2	91.5	91.6	50.3
Thomas A. Greene,						95.2	81.2	98.4	54.2
Sylvia Ann Howland,						92.3	85.7	84.6	54.8
Linden street,						93.3	82	77.3	71.4
Merrinac street,						72	84.3	77.7	77.5
Maxfield street,						87.8	87.7	86.9	78.1

## AVERAGE AGE OF PUPILS IN VARIOUS GRADES.

### HIGH SCHOOL.

Senior.		Sub-Senior.		Junior.		Sub-Junior.		Average Age.	
Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.
17	11	17	4	15	11	15	7	16	8

### GRAMMAR DEPARTMENT.

SCHOOL.	Fifth Year.		Sixth Year.		Seventh Year.		Eighth Year.		Ninth Year.		Average Age.	
	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.
Fifth street,	11	8	12	3	13	1	13	8	14	8	13	$4\frac{4}{5}$
Middle street,	11	5	13	2	13	3	13	11	14	10	13	$3\frac{4}{5}$
Parker street,	11	11	12	6	13		13	11	14	6	13	2
Thompson street,	12	2	12	6	12	10					12	6
Harrington Training and Normal School,	9	10	12	6							11	2
Average age by grades,	11	$4\frac{1}{5}$	12	7	13	$\frac{1}{2}$	13	10	14	8	12	8

# AVERAGE AGE OF PUPILS IN VARIOUS GRADES.

## PRIMARY DEPARTMENT.

SCHOOL.	First Year.	Second Year.	Third Year.	Fourth Year.	Average Age by schools.
	Yrs. Mos.	Yrs. Mos.	Yrs. Mos.	Yrs. Mos.	Yrs. Mos.
Thompson street,	6 7	8 1	8 10		7 10
Harrington,	5 11	7 8	8 8	10 9	8 3
Acushnet avenue,	7 2	9 1	10 4	11 1	9 5
I. W. Benjamin,	7	8 3	9 3	10 7	8 9 $\frac{1}{4}$
Cedar Grove street,	7 10	9 9	10 8	11 8	9 11 $\frac{1}{4}$
Cannonville,	6 5	8 3	9	10 5	8 6 $\frac{1}{4}$
Dartmouth street,	7 8	8 8	10 2	10 3	9 2 $\frac{1}{4}$
Thomas A. Greene,	8 2	8 4	9 7	11 4	9 4 $\frac{1}{4}$
Sylvia Ann Howland,	6 10	7 10	9 6	10 8	8 8 $\frac{1}{2}$
Linden street,	6 11	8 2	10 2	11 6	9 2 $\frac{1}{4}$
Cedar street,	6 8	8 3	9 1	10 6	8 7 $\frac{1}{2}$
Merrimac street,	6 9	9 7	10 4	11 7	9 6 $\frac{3}{4}$
Maxfield street,	6 6	8 2	9 8	10 7	8 8 $\frac{3}{4}$
Average age by grades,	6 11 $\frac{6}{13}$	8 5 $\frac{7}{13}$	9 7 $\frac{8}{13}$	10 10 $\frac{11}{13}$	8 11

## UNGRADED SCHOOLS.

	Grammar Department.		Primary Department.		Average Age by schools.	
	Yrs.	Mos.	Yrs.	Mos.	Yrs.	Mos.
Acushnet School,	12	9	8	6	10	7 $\frac{1}{2}$
Clark's Point School,	12	11	7	8	10	3 $\frac{1}{2}$
Rockdale School,	12	6	7	9	10	1 $\frac{1}{2}$
North School,	11		9		10	
Plainville School,	12	9	7	9	10	3
North Mill School,					13	9
South Mill School,					14	
Average age by departments,	12	4 $\frac{3}{5}$	8	1 $\frac{3}{5}$	11	3 $\frac{1}{2}$

APPROVED LIST OF TEXT-BOOKS TO BE USED  
IN THE HIGH SCHOOL.

SCIENCE.

Remsen's Chemistry.  
Allen's Laboratory Manual.  
Packard's Zoology.  
Youman's Botany.  
Avery's Natural Philosophy.  
Mills' Realm of Nature.

GEOGRAPHY.

Tilden's Commercial Geography.

PHYSIOLOGY AND HYGIENE.

Hutchinson's Physiology and Hygiene.

MATHEMATICS.

Well's Academic Arithmetic.  
Wentworth's School Algebra.  
Wentworth's New Plane Geometry.  
Wentworth's Plane and Solid Geometry.  
Wentworth's Trigonometry.

BOOKKEEPING AND STENOGRAPHY.

Meservey's Bookkeeping.  
Meservey's Bookkeeping Blanks.  
New Complete Bookkeeping, Williams and Rogers.  
Barnes' Shorthand Manual.

HISTORY.

Barnes' History of Ancient People.  
Swinton's Outlines World's History.  
Lancaster's History of England.  
Fiske's History of the United States.  
Martin's Civil Government.

ENGLISH.

D. J. Hill's Rhetoric and Composition.  
Whitney-Lockwood's English Grammar.  
Lockwood's Lessons in English.  
Southworth & Goddard's Elements of English Grammar.



Underwood's American Authors.  
Underwood's British Authors.  
Brook's English Literature.  
Dowden's Shakespeare.  
Irving's Sketch Book.  
Longfellow's Evangeline. Modern classics.  
Scott's Lady of the Lake.  
Franklin's Autobiography.  
Bryant's Thanatopsis and Others. English classics series.  
Macaulay's Lays of Ancient Rome.  
Shakespeare's Merchant of Venice. (Hudson ed.)  
Shakespeare's A Midsummer Night's Dream. (Rolfe ed.)  
Addison's The Sir Roger de Coverly Papers.  
Tennyson's The Coming and Passing of Arthur.  
Tennyson's Elaine.  
Tennyson's Guinevere.  
Milton's Paradise Lost. Book I.  
Shakespeare's As You Like It, and Julius Cæsar. (Hudson ed.)  
Spenser's Faerie Queen, First Canto.  
Shakespeare's Hamlet. Hudson notes.  
Webster's First Bunker Hill Oration.  
Burke's On American Taxation.  
Burke's On Conciliation with America.  
Buehler's English.  
Holmes's The Chambered Nautilus.  
Lowell's My Garden Acquaintance.  
Sprague's Paradise Lost. Book I.  
Macaulay's Essays. Milton and Addison.  
Chaucer's Prologue to the Canterbury Tales.

## GERMAN.

Wenkebach's Deutsche Grammatik.  
Harris's German Lessons.  
Heness's Der Neue Leitfaden.  
Grimm's Hans Märchen.  
Goethe's Hermann and Dorothea.  
Otto's German Grammar.  
Eichendorf. Aus dem Leben Eines Taugenichts.  
Riehl. Der Fluch der Schönheit.  
Chamisso. Peter Schlemil.  
Freytag. Aus dem Staat Friedrich's des Grossen.  
Heine. Die Harzreise.  
Goethe. Dichtung and Wahrheit.  
Lessing. Minna von Barnhelm.  
Schiller. Wilhelm Tell, Das Glied von der Glocke.  
Wenckelbach. Lyrics and Ballads, Die Schonsten deutschen Lieder.

## GREEK.

Goodwin's Greek Grammar.  
Jones's Greek Prose Composition.  
Goodwin's Xenophon and Herodotus.  
Boise's Homer's Iliad.  
Autenrieth's Homeric Lexicon.  
Crosby's Greek Lexicon.  
Manatt's Xenophon Hellenica. Books I-IV.  
Woodruff's Greek Prose Composition.  
Perrin's Homer's Odyssey (for "Homer at Sight").  
Harper's Xenophon's Anabasis (for "Xenophon at Sight").  
Gleason & Atherton's First Greek Book.

## LATIN.

Collar & Daniell's First Latin Book.  
Harkness's Latin Grammar.  
Allen & Greenough's Cæsar.  
Greenough's Virgil.  
Harkness's Cicero.  
Jones's Latin Prose Composition.  
Lindsay's Nepos.  
Kelsey's Selections from Ovid.  
Harper's Virgil (for "Virgil at Sight").

## FRENCH.

Van Daell's French Grammar.  
Roulier's First Book in French Composition.  
Chardenal's Complete French Course.  
Hennequin's Idiomatic French.  
Spier's & Surenné's French Dictionary.  
Gréville. Dosia.  
Bedollière. La Mère Michael et son Chat.  
Halévy. Un Mariage d'Amour.  
About. La Mère de la Marquise.  
Labiche. Le Voyage de M. Perrichon.  
Sand. La Mère au Diable.  
Eckmann-Chatrion. Le Conscrit de 1813.  
Daudet. Le Siège de Berlin.  
Mérimée. Colomba.  
De Vigny. Cinq Mars.  
De Lamartine. Graziella.  
Dumas. La Tulipe Noire.  
Sandeau. Mademoiselle de la Seiglière.  
Scribe et Legouvé. Bataille de Dames.

Lamartine. Jeanne d'Arc.  
La Fontaine. Fables, Books I and II.  
Luper's French Readers.  
Molière. L'Avare, Le Bourgeois Gentilhomme.  
Cornèille. Le Cid, Horace.  
Racine. Andromaque, Iphigénie.

## SUPPLEMENTARY BOOKS USED IN THE HIGH SCHOOL.

Well's University Algebra.  
Chauvenet's Geometry.  
Walpole's Virgil. Book I.  
Sprague's Masterpieces in English Literature.  
Scott's Poems.  
Hudson's Shakespeare. Vol. II.  
Rolfe's Childe Harold.  
Collier's History of English Literature.  
Lay of the Last Minstrel.  
Vicar of Wakefield.  
Shakespeare, by R. Grant White.  
Martin's English Language.  
Strang's Exercises in English.  
Modern Classics :  
    Goldsmith, Cowper and Hemans.  
    Fouque and St. Pierre.  
    Byron and Hood.  
    Burns and Scott.  
    Fields and Hawthorne.  
    Holmes and Brown.  
    Howells.  
    Campbell and Rogers.  
    Carlyle, Lamb and Southey.  
    Wordsworth and Coleridge.  
    Dickens and Fields.  
    Whittier.  
    Hawthorne and Carlyle.  
Thackeray's Essays on Swift, Congreve and Steele.  
Macaulay's Life and Writings of Addison.  
The Four Georges. Thackeray.  
Thackeray's Essays on Prior, Gay, Pope, Hogarth, Smollett, Field-  
    ing, Sterne and Goldsmith.  
Milton and Byron. Macaulay.  
Macaulay's Essay on Johnson.

Macaulay's Essays on Goldsmith, Bunyan and Madame D'Arblay.  
Goldsmith's Plays.  
Goldsmith's Poems.  
Heath's German Dictionary.  
Boisen's German Prose.  
Wenkebach's Anschauung's Unterricht.  
Johnson's Schiller's Ballads.  
Le Roi des Montagnes. About.  
La Littérature Française Contemporaine, by Pylodet.  
La Littérature Française Classique. Mennechet.  
Emerson's Essays.  
American Poems.  
About Old Story Tellers.  
La Tour de la France.  
Perry's Bible Manual.  
Seaver & Walton's Metric System.  
Model Etymology. Webb.  
Stein's German Exercises.  
Smith's Principia Latina.  
Craik's English of Shakespeare—Julius Cæsar.  
Shaler's First Book in Geology.  
Collar's Practical Latin Composition.  
Gray's Lessons in Botany.  
Earl of Chatham. Macaulay.  
Courtship of Miles Standish.  
Emerson's American Scholar.  
Wentworth & Hill's Algebra.  
McCurdy's Exercises in Algebra.  
Comus.  
Lodge's Mechanics.  
Hall & Bergen's Physics.  
The House of The Seven Gables.  
Fisk's Civil Government.  
Luqien's French Prose.  
The Abbott, by Scott.  
Whitney's The Essentials of English.  
Carhart & Chute's Physics.  
Appleton's School Physics.  
The Foundations of Rhetoric, by A. S. Hill.  
Irving's Tales of a Traveller.  
The Plague Year, by DeFoe.  
Arnold's Sohrab & Rustum.  
Scott's Woodstock.  
Silas Marner. George Eliot.  
Montgomery's Leading Facts of English History.

Smith's Smaller History of Greece.

Gray's Botany.

Well's Geometry.

Berlitz Methode für den deutschen Unterricht, Zweiter Theil.

High School Choir.

High School Music Reader.

### TEXT-BOOKS USED IN THE GRAMMAR SCHOOLS.

Franklin New Third Reader.

Franklin New Fourth Reader.

Franklin New Fifth Reader.

Franklin Sixth Reader.

Bradbury's Eaton's Elementary Arithmetic.

Bradbury's Eaton's Practical Arithmetic.

Prince's Arithmetic. Part IV.

Prince's Arithmetic. Part V.

Prince's Arithmetic. Part VI.

Seaver & Walton's Mental Arithmetic.

Longman's Geography.

Longman's Atlas.

Warren's Common School Geography.

Harper's Introductory Geography.

Worcester's School Dictionary.

Barnes's History of the United States.

Hyde's Language Lessons. Part I.

Hyde's Language Lessons. Part II.

Hyde's Language Lessons. Advanced.

Harrington's Speller. Parts I and II.

May's Anatomy, Physiology and Hygiene.

Blaisdell's How To Keep Well.

Prang's Drawing Books.

Merrill's Vertical Writing Books.

Second National Music Reader.

Third National Music Reader.

Fourth National Music Reader.

### SUPPLEMENTARY BOOKS USED IN THE GRAMMAR SCHOOLS.

Eggleston's First Book in American History.

Higginson's History of the United States.

Dickens' Child's History of England.

Andersen's Historical Reader.  
Collier's British History.  
McKenzie's America.  
Ballou's Footprints of Travel.  
Sea Side and Way Side. Part II.  
Sea Side and Way Side. Part III.  
Child's Book of Nature. Parts I, II, III, IV.  
Choice Readings in Nature's Book.  
Johonnot's Geographical Reader.  
Scribner's Geographical Reader.  
Our World. Part I.  
Our World. Part II.  
Fables and Folk Stories.  
Kingsley's Water Babies.  
Riverside Series Nos.  
Tanglewood Tales.  
Grandfather's Chair.  
True Stories.  
Robinson Crusoe.  
Golden Book of Choice Readings.  
American Authors.  
Swinton's Book of Tales.  
Swinton's Supplementary Reader.  
Swinton's American Classics.  
Swinton's English Classics.  
Swiss Family Robinson.  
Washington Irving's Sketch Book.  
Lincoln's Gettysburg.  
Courtship of Miles Standish.  
Old Greek Stories.  
Building of the Ship.  
Arabian Nights.  
Vicar of Wakefield.  
King of the Golden River.  
Church's Old World Stories.  
Hans Brinker.  
Black Beauty.  
Little Men.  
Little Flower People.  
Little Lord Fauntleroy.  
Heroic Ballads.  
At the Back of the North Wind.  
Stories of Industry.  
Blue Jackets of 1776.  
Blue Jackets of 1812.



Blue Jackets of 1861.  
World at Home—Europe.  
World at Home—The World.  
Peasant and Prince.  
Prince and Pauper.  
Quentin Durward.  
Whittier's Snow Bound.  
Glee and Chorus Book.

### TEXT-BOOKS USED IN THE PRIMARY SCHOOLS.

Franklin New First Reader.  
Franklin New Second Reader.  
Franklin New Third Reader.  
Harrington's Speller. Part I.  
Prince's Arithmetic. Part II.  
Prince's Arithmetic. Part III.  
Prang's Drawing Books.  
Merrill's Vertical Writing Books.  
National Music Second Readers and Charts.

### SUPPLEMENTARY BOOKS USED IN THE PRIMARY SCHOOLS.

Monroe's Primer.  
Monroe's First Reader.  
Monroe's Second Reader.  
Monroe's Third Reader.  
Parker & Marvel's First Book.  
Werner Primer.  
Parker & Marvel's Second Book.  
Sheldon's Second Reader.  
Sheldon's Third Reader.  
Appleton's First Reader.  
Appleton's Second Reader.  
Appleton's Third Reader.  
Swinton's Second Reader.  
Swinton's Third Reader.  
Willson's First Reader.  
Willson's Second Reader.  
Willson's Third Reader.  
Butler's First Reader.  
Butler's Second Reader.  
Stickney's First Reader.  
Stickney's Second Reader.

Holmes's First Reader.  
 Holmes's Second Reader.  
 Harper's First Reader.  
 Harper's Second Reader.  
 Normal Primer.  
 Normal First Reader.  
 Barnes's First Reader.  
 Barnes's Second Reader.  
 Barnes's Third Reader.  
 Modern Second Reader.  
 Cleveland's First Reader.  
 Seven Little Sisters.  
 Each and All.  
 Andersen's Fairy Tales.  
 King's Picturesque Geography.  
 Sea Side and Way Side. Part I.  
 Baker's Young Folks' Geography.  
 Fables and Folk Stories.  
 Wood's Natural History First Reader.  
 Wood's Natural History Second Reader.  
 Wood's Natural History Third Reader.  
 Heart of Oak Series. No. 1.  
 Heart of Oak Series. No. 2.  
 Verse and Prose for Beginners.  
 Æsop's Fables. Vols. I and II.  
 Grimm's Fairy Tales.  
 Legends of Norseland.  
 Riverside Primer and First Reader.

## PEDAGOGICAL LIBRARY.

Books added during the year :

243	Evolution of the Mass. Public School System.	Geo. H. Martin.
244	Education from a National Standpoint.	Fouillée.
245	Pedagogics of the Kindergarten.	Froebel.
246	Symbolic Education.	Susan E. Blow.
247	Moral Instruction of Children.	Adler.
248	How to Study and Teach History.	Hinsdale.
249	Principles of Education Practically Applied.	Greenwood.
250	Systematic Science Teaching.	Howe.
251	Studies of Childhood.	Sully.
252	Geography—Physical, Historical and Descriptive.	Keith Johnston.
253	Elements of Geology.	Le Coute,

254	Talks on Pedagogics.	Parker.
255	Grasses and Forage Plants.	Flint.
256	How to Study Geography.	Parker.
257	In the Child's World.	Poulsson.
258	Elementary Physical Geography.	R. S. Tarr.

## SCHOOL BOARD, 1896.

DAVID L. PARKER, Mayor, Chairman *ex officio*.

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FRANK A. MILLIKEN, Vice-Chairman.

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WILLIAM E. HATCH, Secretary and Superintendent.

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ARTHUR L. BLACKMER, President of the Common Council, *ex officio*

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*Ward 1*—John H. Lowe, George W. Hillman, Louis Z. Normandin.

*Ward 2*—Edward T. Tucker, Isaac B. Tompkins, Jr., Frank A. Milliken.

*Ward 3*—Stephen H. Shepherd, William R. Channing, William H. Pitman.

*Ward 4*—George H. Batchelor, Ada W. Tillinghast, Seth W. Godfrey.

*Ward 5*—Robert W. Taber, Jonathan Howland, Jr., Sylvia B. Knowlton.

*Ward 6*—Clarence R. Sherman, Betsey B. Winslow, Francis M. Kennedy.

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## STANDING COMMITTEES.

WILLIAM E. HATCH, Secretary.

The first named on each standing committee is Chairman of the same.

*On High School*—Pitman, Howland, Winslow, Tompkins, Shepherd, Batchelor, Channing, Milliken, Knowlton.

*On Grammar Schools*—Tompkins, Pitman, Howland, Milliken, Taber, Channing, Knowlton, Shepherd, Tillinghast.

*On Primary Schools*—Shepherd, Tompkins, Winslow, Kennedy, Godfrey, Tucker, Taber, Tillinghast, Lowe.

*On Ungraded Schools*—Tucker, Howland, Godfrey, Taber, Normandin, Tillinghast, Sherman, Lowe.

*On Training School*—Milliken, Kennedy, Winslow, Knowlton, Hillman, Tillinghast, Batchelor.

*On Truants*—Godfrey, Normandin, Sherman, Lowe.

*On Evening Schools*—Kennedy, Hillman, Godfrey, Tucker, Normandin, Knowlton, Tillinghast, Sherman, Lowe.

*On Music*—Batchelor, Godfrey, Shepherd, Taber, Knowlton.

*On Manual Training*—Hillman, Winslow, Batchelor, Godfrey, Tucker, Normandin, Knowlton, Sherman, Lowe.

*On Examination of Teachers*—Winslow, Tucker, Batchelor, Tillinghast, Kennedy.

*On Text-Books*—Tillinghast, Kennedy, Milliken, Tucker, Knowlton, Hillman, Lowe.

*On Expenditures*—Howland, Tompkins, Pitman, Shepherd, Kennedy, Milliken, Taber, Channing, Blackmer.

*On Howland Fund*—Tompkins, Howland, Pitman, Shepherd, Kennedy, Milliken, Channing, Hillman, Blackmer.

*On Rules*—Taber, Tucker, Batchelor, Hillman, Sherman.

## SCHOOL BOARD, 1897.

CHARLES S. ASHLEY, Mayor, Chairman, *ex officio*.

ROBERT W. TABER, Vice-Chairman.

WILLIAM E. HATCH, Secretary and Superintendent.

Office 133 William street.

Office Hours, 8.30 to 9 A. M., 12.30 to 1 P. M.

Saturdays, 9 to 9.30 A. M.

GEORGE P. BAILEY, President of the Common Council, *ex officio*.

Regular meetings of the Board, first Monday of each month, at 7.30 P. M., except in the months of January, August and September. In January and September the meetings will be held the Tuesday after the first Monday. In August no meeting of the Board will be held.

## WARD ONE.

Name.	Place of Business.	Residence.
Frank R. Pease,	923 Acushnet avenue,	921 Acushnet avenue.
John H. Lowe,		935 Acushnet avenue.
George W. Hillman,		1036 Acushnet avenue.

## WARD TWO.

Frank A. Milliken,	43 William street,	290 Pleasant street.
Edward T. Tucker,	258 Pleasant street,	258 Pleasant street.
Lewis E. Bentley,	Bennett Mfg. Co.,	526 Purchase street.

## WARD THREE.

William H. Pitman,	Five Cts. Savings Bank,	60 Chestnut street.
Stephen H. Shepherd,	Standard Office,	154 Maxfield street.
William R. Channing,	192 Union street,	53 Fifth street.

## WARD FOUR.

Sylvia B. Knowlton,		348 Union street.
George H. Batchelor,	Institution for Savings,	187 Cottage street.
Ada W. Tillinghast,		37 Eighth street.

## WARD FIVE.

Edmund S. Rousmaniere,		372 County street.
Robert W. Taber,	28 Pleasant street,	48 Fifth street.
Jonathan Howland, Jr.,		54 Russell street.

## WARD SIX.

Joseph C. Pothier.	245 Fourth street,	247 Fourth street.
Clarence R. Sherman.	7 Leonard street,	248 County street.
Betsey B. Winslow,		315 County street.

EMMA M. ALMY, Superintendent's Clerk.

MARY C. POTTER, Assistant Clerk in Superintendent's Office.

HENRY SMITH, Truant Officer, 372 Cottage street.

WILLIAM A. BAKER, Truant Officer, 213 Fourth street.

Office Hours, 12.30 to 1 P. M.; Saturdays, 9 to 9.30 A. M.

GEORGE K. DAMMON, Messenger and Truant Officer, 137 Smith st.

Office of Superintendent of Schools open from 8.30 A. M. to 4.20 P. M., except Saturdays. Saturdays, from 9 A. M. to 11 A. M., 2 P. M. to 4 P. M.



## STANDING COMMITTEES.

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WILLIAM E. HATCH, Secretary.

The first named on each standing committee is Chairman of the same.

*On High School*—Milliken, Pitman, Howland, Winslow, Shepherd, Batchelor, Knowlton, Taber, Tillinghast, Rousmaniere.

*On Grammar Schools*—Taber, Pitman, Howland, Milliken, Channing, Knowlton, Shepherd, Tillinghast, Sherman.

*On Primary Schools*—Shepherd, Winslow, Tucker, Taber, Tillinghast, Lowe, Bentley, Pothier, Pease.

*On Ungraded Schools*—Tucker, Howland, Tillinghast, Sherman, Lowe, Bentley, Pothier, Pease.

*On Training School*—Knowlton, Milliken, Winslow, Hillman, Tillinghast, Batchelor, Rousmaniere.

*On Truants*—Sherman, Hillman, Tucker, Channing.

*On Evening Schools*—Lowe, Hillman, Tucker, Knowlton, Tillinghast, Sherman, Bentley, Pease, Rousmaniere.

*On Music*—Batchelor, Shepherd, Knowlton, Channing, Rousmaniere.

*On Manual Training*—Hillman, Winslow, Batchelor, Tucker, Knowlton, Sherman, Lowe, Pothier, Pease.

*On Examination of Teachers*—Winslow, Batchelor, Tillinghast, Knowlton, Rousmaniere.

*On Text-Books*—Tillinghast, Milliken, Tucker, Knowlton, Hillman, Bentley, Pothier.

*On Expenditures*—Howland, Pitman, Shepherd, Milliken, Taber, Channing, Lowe, Bentley, Pothier, Bailey.

*On Howland Fund*—Pitman, Howland, Shepherd, Milliken, Channing, Hillman, Taber, Pease, Bailey.

*On Rules*—Tucker Batchelor, Sherman, Pothier, Rousmaniere.

ANNUAL REPORT  
OF THE  
SUPERINTENDENT OF SCHOOLS,  
FOR THE YEAR 1896.



# Report of the Superintendent.

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*To the School Committee:*

Ladies and Gentlemen,—I hereby submit for your consideration my ninth Annual Report. It is also the thirty-sixth of the series of Annual Reports of the Superintendent of Schools of the city.

By vote of your Board, this report with that of the Secretary, shall constitute the report of the School Committee. The combined reports are virtually reports of the schools by your body to our fellow citizens, and should give them such information about the schools as they desire to know.

The Superintendent's part of the report, however, is somewhat anomalous in character. Constituting as it does a part of the Committee's report, it contains opinions which may be entirely his own; it may embrace recommendations for future action by your body; it may make indirect appeals to the citizens at large for their future support of a certain policy for the schools.

These recommendations should be based on a thorough knowledge of the schools under his supervision and the results that follow a certain line of action, and should not be hypothetical or visionary in their character. For it is often very much easier to fix a policy on a school system than to change it; and an unsound policy once inaugurated frequently does irremediable harm before a revision of it can be effected.

With this explanation, I present this report to your Board and to our fellow citizens.

## THE ATTENDANCE OF PUPILS IN THE PUBLIC, PAROCHIAL AND PRIVATE SCHOOLS.

On pages 27, 28, 29, 30, of this report, are given tables showing the attendance of pupils in all the schools of the city. The teachers of parochial and most of the private schools of the city have kindly furnished me with very complete data of the attendance in their schools. Without doubt a number of pupils are reported in the enrollment of both the public and the parochial schools, as a certain class of pupils are constantly changing between them. I do not see how this can be avoided.

The reports show that the attendance is rapidly increasing in the elementary schools. The growth of the secondary schools is not so marked.

In the public schools, strenuous efforts have been made by the teachers to secure regular attendance. Their efforts have been rewarded with good success, as shown by the returns. By the suspension of recesses in the primary grades in the forenoons during the winter months, dismissals for the purpose of carrying dinners have been almost eliminated. Cases of tardiness have been much lessened in some schools by the teachers securing the co-operation of a majority of the pupils in their efforts to secure a prompt attendance. Delinquents who do not care much for the disapprobation of their teachers dread that of their classmates.

Irregular attendance, frequent dismissals and tardinesses, all affect any school harmfully. What is my duty to this pupil who is frequently absent, or dismissed or tardy? is the inquiry of the teacher. Shall I take time to explain anew those points in the lessons which the absentee has lost, or shall he suffer for his misfortune or his delinquency?

These are practical and hard questions for teachers to

answer satisfactorily to themselves, and they appeal frequently to the Superintendent to assist them. I venture to assert as a principle, that the school as a whole should not be permitted to suffer for the misfortunes or delinquencies of a few. Children should learn the lesson while young, that he only deserves help who tries to help himself. It should be understood in every school by the pupils, that the teacher is ready, at such times as will not work injustice to the rest of the class, to assist any pupil who has lost any work by necessary absence; but the pupil must seek this help. In cases of delinquency, the pupil should feel that he is entirely responsible for his loss, and must work it up or suffer for it.

Teachers, I know, feel that in too many cases parents do not recognize the value of constant and prompt attendance by the pupils. And they have some cause to feel so. Fidelity to duty, obedience to law, and respect for the rights and feelings of others are faithfully taught in the schools, and all parents should lend a helping hand to the teachers in inculcating these principles.

But teachers, on their side, should make due allowance for the circumstances that environ pupils, and should not blame them for absences and tardinesses which the conditions at home or sickness have made necessary. Children are quick to recognize injustice, and are often antagonized by the indiscriminating censure of their teachers.

### TRUANCY.

Truancy does not abate; it has rather a tendency to increase. It is only by the exercise of constant vigilance by both teachers and truant officers that it is kept in reasonable check. It has been claimed that truancy is frequently due to the unpleasant atmosphere of the school; if a teacher is harsh and exacting, many truantries will occur.



That statement may have a foundation of truth. Long experience has convinced me, however, that comparatively few cases of truancy can be laid at the door of the teachers, for the very good reason that there are not many harsh and exacting teachers in these days; they will not be tolerated very long.

No. The majority of truants are such because of their lives outside of the school-room; the result of inherited tendencies, or habits that all the good influence of the school cannot check. They are very frequently confirmed cigarette smokers, or children who have no wholesome home surroundings.

The restraints of the school become irksome to them, and, being morally weak, they yield readily to temptation. Many of their cases are sad ones, and many of them are less at fault than their parents.

If their cases are sad to contemplate, however, those of the youthful criminals who are appearing very frequently in our courts are much sadder; but the truant is almost certain to become a criminal if he is not checked in his truancy: and there is no way to stop some of them except to send them away to the Truant school.

The Truant school is not intended to be a penal institution, and should not be permitted to become one. It is a school to which pupils are sent to remove them temporarily from their associations at home; in which they may be carefully supervised and made to follow a regular course of study and duties; in which the moral atmosphere is wholesome and the restraint constant and firm.

There is much hope for the graduate of the Truant school; there is much less for the graduate of the Reform school, although much more to-day than formerly, owing to the better organization of the modern reform schools and their greatly improved management.

## REPORT OF HENRY SMITH, TRUANT OFFICER.

Schools visited,	1,711
Absences reported by teachers,	782
Absences without permission of parents,	91
Second offences,	21
Third offences,	19
Parents notified,	806
Taken to school from street,	27
Arrests,	5
Prosecutions,	5
On probation,	
Sentenced to Truant school,	5
Transfer cards received,	136
Visits to mills,	85
Violations of labor law,	2
Evening school absences investigated,	191

## REPORT OF WILLIAM A. BAKER, TRUANT OFFICER.

Schools visited,	1,354
Absences reported by teachers,	778
Absences without permission of parents,	85
Second offences,	13
Third offences,	3
Parents notified,	869
Taken to school from street,	37
Arrests,	4
Prosecutions,	4
On probation,	1
Sentenced to Truant school,	3
Transfer cards received,	100
Visits to mills,	100
Violations of labor law,	3
Evening school absences investigated,	263

## COMPULSORY SCHOOL ATTENDANCE AND EMPLOYMENT CERTIFICATES.

The laws of the State as amended to date in relation to school attendance and employment of children are as follows :

### CHAPTER 498.—*An Act relative to the Attendance of Children in the Schools.*

Section 1. Every person having under his control a child between the ages of eight and fourteen years, and in every city and town where opportunity is furnished, in connection with the regular work of the public school, for gratuitous instruction in the use of tools or in manual training, or for industrial education in any form, a child between the ages of eight and fifteen years, shall annually cause such child to attend some public day school in the city or town in which he resides, and such attendance shall continue for at least thirty weeks of the school year, if the schools are kept open for that length of time, with an allowance of two weeks' time for absences not excused by the superintendent of schools or the school committee. Such period of attendance shall begin within the first month of the fall term of school, and for each five days' absence of any such child thereafter, in excess of the above allowance, before the completion of the required annual attendance of thirty weeks, the person having such child under his control shall, upon the complaint of the school committee or any truant officer, forfeit to the use of the public schools of such city or town a sum not exceeding twenty dollars, but if such child has attended for a like period of time a private day school approved by the school committee of such city or town, or if such child has been otherwise instructed for a like period of time in the branches of learning required by law to be taught in the

public schools, or has already acquired the branches of learning required by law to be taught in the public schools, or if his physical or mental condition is such as to render such attendance inexpedient or impracticable, such penalties shall not be incurred.

Section 2. For the purposes of the preceding section school committees shall approve a private school only when the teaching in all the studies required by law is in the English language, and when they are satisfied that such teaching equals in thoroughness and efficiency the teaching in the public schools in the same locality, and and that equal progress is made by the pupils therein, in the studies required by law, with that made during the same time in the public schools; but they shall not refuse to approve a private school on account of the religious teaching therein.

Section 3. The truant officers and the school committee of the several cities and towns shall vigilantly inquire into all cases of neglect of the duty prescribed in section one, and ascertain the reasons, if any, therefor; and such truant officers or any of them, shall, when so directed by the school committee, prosecute in the name of the city or town any person liable to the penalty provided for in said section. Police, district and municipal courts, trial justices and judges of the probate court, shall have jurisdiction within their respective counties of the offences described in section one.

#### CHAPTER 508.—*An Act regulating the Employment of Labor.*

Section 13. No child under thirteen years of age shall be employed at any time in any factory, workshop or mercantile establishment. No such child shall be employed in any indoor work performed for wages or other compensation, to whomsoever payable, during the hours

when the public schools of the city or town in which he resides are in session, or shall be employed in any manner during such hours unless during the year next preceding such employment he has attended school for at least thirty weeks as required by law.

Section 14. No child under fourteen years of age shall be employed in any manner before the hour of six o'clock in the morning or after the hour of seven o'clock in the evening. No such child shall be employed in any factory, workshop or mercantile establishment, except during the vacation of the public schools in the city or town in which he resides, unless the person or corporation employing him procures and keeps on file a certificate and employment ticket for such child, as prescribed by section seventeen of this act; and no such child shall be employed in any indoor work performed for wages or other compensation, to whomsoever payable, during the hours when the public schools of such city or town are in session, unless as aforesaid, or shall be employed in any manner during such hours unless during the year next preceding such employment he attended school for at least thirty weeks as required by law: provided, the public schools are in session that number of weeks, which time may be divided, so far as the arrangements of school terms will allow, into three terms of ten consecutive weeks each, and such employment shall not continue in any case beyond the time when such certificate expires.

These laws are enforced as well as they can be by the Superintendent and the Truant Officers under present conditions. There are a number of schools in the city that are not approved by the School Committee and several that scarcely comply with the laws in regard to instruction in English. Some action should be taken in regard to these schools. Certificates cannot be issued to a child under fourteen years of age, although he may have attended



thirty weeks since reaching the age of thirteen, unless he has attended a school approved by the Committee. If he reaches the age of fourteen he may demand his certificate, provided he can read and write in the English language, although he has not attended school thirty weeks since he was thirteen. If he cannot read and write the English language, however, his time must be made up. Recourse may be had against the parent if he fails to have his child attend school thirty weeks between the ages of thirteen and fourteen, although said child may be able to read and write in English.

It is difficult to make many parents understand the different phases of the law. Many of them are ignorant and communication cannot be held with them except through an interpreter. Sometimes deception is practiced to secure the coveted certificate; all that can be done by the Superintendent is to enforce these laws as well as circumstances warrant in each individual case, and this is done.

#### EMPLOYMENT CERTIFICATES ISSUED DURING THE YEAR.

Number of certificates issued,		767
For the first time,	732	
Duplicate of certificate,	35	767
Birthplace of those to whom certificates were issued :		
United States,	306	
Canada,	216	
England,	97	
Western Islands,	73	
Germany,	10	
Russia,	8	
France,	5	
Ireland,	4	
Scotland,	4	
Austria,	2	
Portugal,	2	
St. Helena,	2	
Cape de Verde Islands,	1	
Hawaiian Islands,	1	
Norway,	1	732
Number of illiterates to whom certificates were issued,		258
Vacation certificates issued during the summer vacation,		143



## INADEQUACY OF SCHOOL ACCOMMODATIONS.

I presume that it appears to some of our citizens and taxpayers that the School Department is demanding too many schoolhouses. I have had as much hinted to me recently. But instead of this being the case, the department is sorely hampered by insufficient school quarters, as I will show.

There are at present nearly four hundred children who are compelled to attend school in rented rooms in different parts of the city, and it has been necessary recently to hire another large hall to provide for the overflow in the I. W. Benjamin and Thompson Street schools.

These rented quarters, even under the best conditions, are not proper places for schools, so far as light and ventilation are concerned—to mention nothing else. Yet we shall have nearly five hundred children located in them for some months to come, and the indications are that other rooms will be needed in other parts of the city, when some that are now rented are dispensed with, notably in the west section of the city.

From a pure monetary standpoint, there is no great economy in the present arrangement. The rental for hired school-rooms now amounts to nearly \$2,000 a year, and exclusive of this item much is expended in making them suitable for use.

It has been necessary, also, besides hiring outside quarters, to transfer pupils of certain grades to other schools than those in which they properly belong. This is provoking to parents, as their children are disturbed in their school relations. Often, on this account, members of the same family are separated in attending school. Sometimes parents withdraw their children from the public schools for these reasons, and send them to private schools. This constant friction is not for the best interests of the schools.

While I offer no criticism of anyone for the present condition of things, but on the other hand wish to express my thanks to the past city governments for what has been done during the last decade to improve the school facilities of the city, I commend to the earnest consideration of the present city government the pressing need of more schoolhouses; and I also venture to suggest that contracts for schoolhouses in the future require their completion by the contractor within a definite time, under forfeiture on his part for failure to do so.

### THE PRIMARY SCHOOLS

Sixty-seven per cent. of the average number of pupils belonging in the schools the past year were enrolled in the primary grades, which comprise the first four only of the thirteen school grades. This shows the relative importance of these schools as far as numbers are concerned.

The pupils in them are of various nationalities; many of them do not understand a word of English when they enter school, and hear little if any English spoken in their homes. To take forty or fifty of these active and untrained little people and guide their activities in the proper channels; to train them in habits of obedience, of politeness, of respect for the feelings of others, of order, and in many of them cleanliness; to teach them to read and write; to understand numbers and their relations; to draw, to read music and to sing; to observe natural phenomena and to describe them: these are some of the duties of the primary teacher. I say some of the duties, for there are others; those enumerated would seem sufficient, but any primary teacher will tell you that they are not all.

It requires infinite patience, tact, judgment, professional training, with other qualifications in the teacher to do

these things well ; yet there are many persons who think it is an easy thing to teach a primary school ; who think the stipend paid for the service is scarcely earned. There is not a good primary teacher, nor even a fair one, who in my judgment does not earn her salary twice over.

The teachers of our Primary schools are all trained teachers. With few exceptions they are earnest, tactful and good instructors ; they appreciate the great responsibilities of their positions, and meet them successfully. It is not strange that a few fail in spite of their endeavors to succeed. But why should such teachers persist in trying to teach when they have not the faculty of governing or instructing, especially if they are young? In some other field they might be successful and happier ; surely there they would do less harm to others ; for every teacher, who teaches any length of time, must have many children come under her jurisdiction, and, if she cannot train them in good habits or teach them well, she cannot fail to do them injury.

### THE GRAMMAR SCHOOLS.

Classifying each room as a separate school, there are at present forty-five grammar schools in the city. Two of these schools are located in the Harrington schoolhouse and used as practice schools in connection with the Training school. In charge of the remaining forty-three, there are forty-three class room teachers and three supervising principals. The principal of the Thompson Street school has charge of a class room with no assistant.

The average number of pupils belonging in the grammar schools the past year was 1,797 ; in the primary, 4,033. These figures show that a great many pupils either do not enter the grammar grades at all, or do not complete the course in them. There are fourteen classes

of the lowest grammar grades, with 638 pupils; there are only six classes of the highest, with 202 pupils.

What becomes of the others? Most of them leave school to go to work. And thus it appears that a very large portion of our pupils begin their work in life with a most rudimentary education, not even completing the grammar course, notwithstanding the strict school laws of Massachusetts which compel their attendance until nearly fourteen years old. This will continue as long as there is a large influx of foreign born non-English speaking children into the schools.

These schools as a whole are well governed and well taught. They are capable of being improved, without doubt; but there is more to praise in them than to censure. No important change has been made in the curriculum during the year. A new geography was substituted for use in the ninth grade for the one formerly used. The new one tends to make the pupils do better thinking; and strong thinking is none too common in the schools of today. Vertical penmanship has produced a very legible handwriting in nearly every pupil. Elementary science is being more intelligently taught each year and the scope of the instruction broadened.

One of the criticisms made upon the public schools is that the very capable pupils are reduced to a level with the average; that while many of the dullest or slothful pupils are refused promotion, those who are able to do the work in less time than the majority are not given the opportunity for special advancement. Different places are trying to meet this criticism, (which is recognized as a just one) in different ways. It is not an easy matter to provide for proper attention to individual pupils with the present organization of the schools. Thirty-two pupils have had double promotion in the grammar grades during the year. Most of them have justified the action by their



subsequent standing. But unless the schools can have regular semi-annual promotions, the percentage of double promotions must continue small.

President Hyde of Bowdoin says in a recent article on the public schools: "A school system where the promotion is frequent, and the programme is flexible, and instruction is personal and individual, and examination is rational and natural, and where the great topics which call out youthful enthusiasm and minister to intellectual and social delight are introduced as early and rapidly as they can be appreciated and enjoyed; a school system like that is infinitely preferable to a system where everybody must take the same course in the same time in the same way; and be worried once in so often over the same arbitrary and formal examinations, and waste the same number of precious years in the same dreary and monotonous drudgery upon subjects which have long since lost all interest and charm. The wealthy and intelligent portion of the community are beginning to understand that the public school of to-day is not the ideal school; and that fact constitutes the crisis of the hour. Shall this demand of the intelligent and wealthy parents be met by private schools to which the children of the more favored classes shall be sent, and by leaving the public schools exclusively for the poorer children whose parents cannot afford to send them to a better school? The moment that policy is permitted to prevail, the public school receives a more fatal blow than it was ever in the power of politician or ecclesiastic to inflict. The public school will conquer every inferior rival. Its rivals, hitherto, both private and parochial, have been hopelessly inferior to the public school; and in spite of all opposition, the public school has thus far come out of every conflict magnificently triumphant. Unless the public school system itself responds at once to the new ideal, it will ere long find itself confronted for the first

time by a rival whose superiority to itself will render it really formidable."

These utterances of President Hyde deserve the most careful consideration by the friends and administrators of the public schools. Some of his suggestions are already a part of our school system. Promotions are no longer based on formal examinations; it is also possible for pupils who will work for it, to advance out of course; but we still retain regular annual promotions, which make it difficult for individual pupils to advance more rapidly than their class.

If semi-annual promotions were substituted for the present system, it would be much easier for pupils to obtain special promotions, and would be a decided advance in the right direction. But to provide beyond this a flexible programme, and to secure instruction that is "personal and individual," is a much more difficult matter; it means specialization of work, electives in the higher grammar grades, and very many less pupils to a teacher than at present. Such a readjustment would entail a very much larger expenditure per pupil than at present. Will the people endorse it?

I am ready to admit that more can be done, even under the existing organization, than at present, to vitalize and individualize the instruction. There is certainly too much threshing of old straw, too much dwelling on non-essentials. The great weakness of the public school system is the treadmill pace it has set for all classes of pupils, and all should unite to lift it out of its deadly leveling process.

### THE UNGRADED SCHOOLS.

These schools with us are of two classes,—the Country schools and the Mill schools. There are five of the first class, with ten teachers; only one, the Plainville school,



has but one teacher; the others are graded into primary and grammar, with the exception of the Acushnet school, which has three rooms for the nine grades. The Rockdale school has an assistant but half the day.

The Plainville school, which was closed for a year and the pupils transported into the central schools, was reopened by the Committee in September of this year, on petition of the parents of that district. While the feeling prevailed that the pupils would receive better instruction in the graded school, there were other reasons that made it seem best to reopen the school. Assistants have been placed in nearly all these schools. This action has benefited them very much, but has added to their relative cost, as shown under the expenditure account.

The two Mill schools, with their four rooms, are divided into primary and grammar sections. I still think, as I expressed myself several years ago, that the name Mill schools should be abandoned, and the name Ungraded schools substituted. It would then be well to have several more of the same character in different parts of the city,—not for the benefit of mill children, (for the change in the laws of the State relating to school attendance makes this no longer necessary,) but for the benefit on the one hand of overgrown and backward pupils who need special help, and on the other, of those more proficient in most of their studies, but who need special assistance; and for some others, that they may take the position they deserve in the regular course.

### THE HIGH SCHOOL.

There is at present a strong movement in England for the establishment of secondary schools in that country in connection with Board schools. England is beginning to realize that she is being superseded in many lines of in-

dustry by countries, especially Germany, where higher education is more common than with her. Her statesmen are taking alarm, hence the present agitation.

A prominent writer in one of the English magazines of recent date states that Germany is beating England, not because German goods are cheaper, but because German education is better. He says: "In Germany, love of knowledge for its own sake, apart from its practical and profitable utilization, is studiously instilled and successfully communicated to the rising generation; and the result is writ large, among other things, in the vast strides made by German commerce throughout the world. Their country bristles with technical schools, with commercial training colleges, and with special educational institutions of every kind of theoretical learning and practical skill, from the method of dairy farming to the theory of transcendental æsthetics."

The supremacy of Germany to-day among the nations of the world is acknowledged everywhere to be due to the average high order of intelligence of her citizens.

The rank of Massachusetts among her sister States is due to the same cause; and I have heard it affirmed by high authority, that to the number and efficiency of her High schools may be justly attributed Massachusetts' proud position to-day. It is also stated that the average wages paid in Massachusetts is higher than is paid in any other State in the Union for the same reason.

If these statements are true, and I believe they are, it is the duty of every good citizen, not only to support the High school of his city or town most willingly, but to do all in his power to stimulate its growth and broaden its usefulness.

That the High school of our own city is not growing, but has actually a smaller attendance than ten years ago, while most High schools in the State have shown a re-

markable increase in attendance during that time, and notwithstanding the great growth of the city in that period, is to me a constant source of surprise and regret. I should, therefore, think that I was derelict in my duty did I not continue to draw attention to the fact and strive to secure a different condition.

The following table gives the number in each entering class for some years :

September, 1888,	110
“ 1889,	122
“ 1890,	147
“ 1891,	136
“ 1892,	133
“ 1893,	140
“ 1894,	125
“ 1895,	136
“ 1896,	144

It shows that the entering classes will average slightly larger in the last few years than they would ten years ago, but the school is smaller.

There are two conclusions to be drawn from this table : first, that the school does not attract as many to it as it ought ; second, that it does not retain them as long.

Now I wish to reaffirm what I stated in my annual report two years ago, that I believe the quality of the instruction given in the school compares favorably with that of the best High schools of the State. It has had weaknesses, and may have now. What High school has not? But I believe that it is stronger to-day than ever before. The teaching is without question stronger than it was ten years ago. If my judgment is correct in regard to the instruction, and it has been substantially confirmed by an examining board, the causes for the small attendance must be accredited to other reasons than the quality of the teaching.

There has been a feeling that one reason why the school has not attracted more pupils to it, or has failed to hold them longer after they have entered, is that it has failed to meet the demands of a utilitarian age in its course of instruction. The Committee has partly remedied this defect by the addition the past year of a "Three Years' Commercial Course," the schedule of which is given in full at the end of this article. If a good Manual Training Course should now be added, the school would then offer as broad and varied a course of work as the most thoroughly equipped high schools in the country. The laws of the State require that a Manual Training Course shall be offered in the high schools of cities containing 20,000 or more inhabitants.

But I believe one must seek elsewhere than the school itself for the main causes that keep the attendance in the High school small. Every city has its own special educational problems to solve in addition to the general one that applies to all. Particular conditions, therefore, may affect a High school of a place in more marked degree than the lower schools. I think that is the case in our own city.

After giving the subject of the High school attendance careful study for a number of years, I have concluded that its growth has been retarded by the following causes :

First, by the strong competition of private and parochial schools. A comparatively small but influential class in the city have never given their patronage to the public schools, but have always sent their children to private schools ; another large class do not send their children to the public schools on religious grounds.

Second, by the commercial or utilitarian spirit which has always had a strong hold upon a large class of our citizens, who, for this reason, have failed to estimate at its true worth the value of a broad academical education.



Of course I realize more fully than anyone else in the city—as I am in contact with all classes of children every day in the elementary schools—that the character of a large part of the recent growth in the population of the city has not contributed much to the High school constituency; but it has brought others here who do patronize the school. The High school should not be expected to increase in proportion to the lower schools, but it should not decrease.

For causes, therefore, which appear to be chiefly local, the High school has not grown as most High schools in the State. But it is offering advantages excelled by few if any similar schools. Its teachers are experienced, well educated, and most of them skillful. It offers a number of courses. A pupil may get in it a thorough English education; or he may prepare himself well in four years to enter any college or technical school; or he may secure an excellent preparation for commercial life.

The school is splendidly equipped with laboratories, both physical and chemical, with illustrative apparatus, and with reference books. It should be better appreciated and more generally patronized.

Again I quote from President William DeWitt Hyde of Bowdoin college. He says: “The public school is the institution which says that the poor boy, though he may eat coarser food, and wear a shabbier coat, and dwell in a smaller house, and work later and harder than his rich companion, still shall have his eyes trained to behold the same glory in the heavens and the same beauty in the earth; shall have his mind developed to appreciate the same sweetness in music and the same loveliness in art; shall have his heart opened to enjoy the same literary treasures and the same philosophic truths; shall have his soul stirred by the same social influences and the same spiritual ideals as the children of his wealthier neighbors.

“The socialism of wealth, the equalization of material conditions, is at present an idle dream, a contradictory conception; toward which society can take, no doubt, a few faltering steps, but which no mechanical invention or constitutional device can hope to realize in our day. The socialism of the intellect, the offering to all of the true riches of an enlightened mind and a heart that is trained to love the true, the beautiful, and the good; this is a possibility for the children of every workingman; and the public school is the channel through which this common fund of intellectual and spiritual wealth is freely distributed alike to rich and poor.

“Here native and foreign born should meet to learn the common language and to cherish the common history and traditions of our country; here the son of the rich man should learn to respect the dignity of manual labor, and the daughter of the poor man should learn how to adorn and beautify her future humble home. Here all classes and conditions of men should meet together and form those bonds of fellowship, ties of sympathy, and community of interest and identity of aim, which will render them superior to all the divisive forces of sectarian religion, or partisan politics, or industrial antagonisms; and make them all contented adherents, strong supporters, firm defenders of that social order which must rest upon the intelligence, the sympathy, the fellowship, the unity of its constituent members.”

Believing most sincerely in these sentiments of President Hyde, I plead for a better patronage of the High school. I urge also upon parents who have children in it to try to visit it often; to familiarize themselves with its aims and its work; to encourage their children to do their whole duty and not withdraw them when slight friction occurs, or for any other insufficient cause.

A better knowledge of the school by the parents of the



pupils, and an acquaintance with the teachers would I am sure stop much unjust criticism. Even if there should exist cause for criticism, parents ought to seek the proper remedy and not weaken the school by withdrawing their children; the chances are that such a course will work harm also to the children themselves.

The school belongs to the people. Those who administer it administer a public trust. The teachers and the school authorities realize this fact, and welcome a fair and generous criticism. They are also desirous to remedy faults when they are shown to exist. They also desire the advantages of the school to be appreciated and its usefulness extended; the thoughtful and hearty support of our citizens is necessary to this end.

The following statistics furnished by Mr. Moore, Principal of the school, are of interest. To them I direct attention; also to the Commercial course of study, which went into effect about the first of October.

Number of pupils who have left school during the year, and causes :

	Boys.	Girls.	Total.
Sub-Seniors,	2	3	5
Juniors,	10	13	23
Sub-Juniors,	22	17	39
			—
			67

Causes for leaving :

	Boys.	Girls.	Total.
Illness,	1	7	8
Moved from city,	3	3	6
At work,	13	8	21
Neglect of school work,	7	2	9
Not promoted,	3	1	4
Went to private schools,	3	5	8
Went to Europe,		1	1
Reasons unknown,	4	6	10
			—
			67

## Graduates of 1896 pursuing advanced courses :

	Boys.	Girls.	Total.
College,	4	3	7
Harrington Training school (entered January, 1897),		13	13
Institute of Technology (1 boy P. G. 3 weeks),	2		2
Kindergarten,		1	1
Post Grad. High school, (1 boy in Tech. 9 ent. H. T. S., Jan., '97,)	3	13	16
	<u>9</u>	<u>30</u>	<u>39</u>

One boy and nine girls counted twice.

## Post graduates in the High school during 1896, now pursuing advanced courses :

	Boys.	Girls.	Total.
College,		3	3
Normal,		1	1
Harrington Training school,		1	1
		<u>5</u>	<u>5</u>

## Pupils entering the High school in September, 1896 :

	Boys.	Girls.	Total.
From New Bedford Public schools,	45	82	127
From other schools,	2	9	11
	<u>47</u>	<u>91</u>	<u>138</u>

## Post graduates in the High school in 1896 :

	Boys.	Girls.	Total.
From January to June.	0	7	7
From September to December,	3	15	18
	<u>3</u>	<u>22</u>	<u>25</u>

## Taking the Commercial course in the High school :

	Boys.	Girls.	Total.
Post graduates,	0	4	4
Juniors,	8	13	21
Sub-Juniors,	27	33	60
	<u>35</u>	<u>50</u>	<u>85</u>

Intention of present pupils concerning advanced courses.  
Classical course, (to enter college with Greek) :

	Boys.	Girls.	Total.
Senior class,	2	1	3
Sub-Senior class,	3	2	5
Junior class,	6	1	7
Sub-Junior class,	5	3	8
	<hr/> 16	<hr/> 7	<hr/> 23

To enter college without Greek :

	Boys.	Girls.	Total.
Senior class,	3	0	3
Sub-Senior class,	1	1	2
Junior class,	4	4	8
Sub-Junior class,	4	0	4
	<hr/> 12	<hr/> 5	<hr/> 17

To enter Scientific, Medical, or Law school :

	Boys.	Girls.	Total.
Senior class,	2	0	2
Sub-Senior class,	1	0	1
Junior class,	9	0	9
Sub-Junior class,	3	0	3
	<hr/> 15	<hr/> 0	<hr/> 15

To enter the Harrington Training school :

	Boys.	Girls.	Total.
Senior class,	0	13	13
Sub-Senior class,	0	20	20
Junior class,	0	0	0
Sub-Junior class,	0	26	26
	<hr/> 0	<hr/> 59	<hr/> 59

To enter a State Normal school :

	Boys.	Girls.	Total.
Senior class,	0	0	0
Sub-Senior class,	0	4	4
Junior class,	0	0	0
Sub-Junior class,	1	3	4
	<hr/> 1	<hr/> 7	<hr/> 8

To enter other advanced schools :

	Boys.	Girls.	Total.
Senior class,	0	2	2
Sub-Senior class,	0	7	7
Junior class,	0	0	0
Sub-Junior class,	3	2	5
	<hr/> 3	<hr/> 11	<hr/> 14

Per cent. of promotions the past year by classes :

Senior,	100
Sub-Senior,	100
Junior,	91.07
Sub-Junior,	85.5

THREE YEARS COMMERCIAL COURSE OF STUDY IN NEW BEDFORD  
HIGH SCHOOL.

FIRST YEAR.

SUBJECTS.	No. Mos.	No. Rec.	REQUIRED STUDIES.	ELECTIVES.	No. Mos.	No. Rec.
English.	10	4	Grammar, Composition, Literature.	{ French in place of Geography and Science.	10	5
Algebra. Commercial and	10	4		{ Manual Training, other than school hours, including clay modeling and wood carving.	10	2½
{ Physical Geography. Bookkeeping.	10	4	Including penmanship and business forms.	{ Domestic Economy. Music.	10	2½
Science.	10	2	Laboratory work in Physics and Chemistry.		10	1
Drawing.		2	Mechanical, or ornament and appearance.			

## SECOND YEAR.

English.	10	6	Composition and Literature.	French (2d year in place of or German (in place of Science) or Stenography and Type Writing. NOTE: Each pupil will be expected to take 19 or 20 recitations per week.	10	3
Geometry.	10	3			10	4
English History.	5	2			10	4
{ U. S. History and { Civics.	5	2				
Science.	10	2	Laboratory work in Botany and Zoology.	{ Manual Training, other than school hours, including clay modeling and wood carving.	10	2½
Drawing.	10	2	Mechanical, or ornament and appearance.	Domestic Economy. Music.	10	2½
					10	1

## THIRD YEAR.

English.	10	6	Composition and Literature.	French (3d year)	10	3
Arithmetic.	10	3	{ Commercial, short forms and drills in rapid addition and { computation.	or German (2d year)	10	4
				or Physics (if previous Science has been taken)	10	4
{ Bookkeeping and { Commercial Law.	10	1	{ Review, and including penmanship and business { forms.	or Stenography and Type Writing. NOTE: Each pupil will be expected to take 19 recitations per week.	10	5
Drawing.	10	2	Mechanical, or ornament and appearance.	{ Manual Training, other than school hours, including clay modeling and wood carving.	10	2½
				Domestic Economy. Music.	10	2½
					10	1



## THE HARRINGTON NORMAL AND TRAINING SCHOOL.

The report of this school, which is subjoined, gives the changes that have recently occurred in it; outlines very clearly its organization and aims; and makes certain recommendations regarding its future, which I endorse for the consideration of the Committee. The report is so very complete that very little seems to be required from me to supplement it.

The school is a powerful factor in improving the teaching force of the city; it is worthy the liberal support which the School Board has always given it. With a few exceptions, its graduates are successful teachers; they are loyal, enthusiastic and skillful; where anyone of them has not answered expectations, the fault is individual and cannot be charged to the Training school.

The school has suffered a loss in the resignation of Miss Anna W. Braley, the Vice-Principal, who went to Fall River to assume the principalship of the Training school there. Miss Braley has been the vice-principal of the school since its organization. Her energy, enthusiasm, teaching power, scholarship and strong executive ability made her an invaluable associate of the principal. She had declined several flattering offers to go elsewhere during her connection with the school, and her services were retained here for several years past only by increase of salary and other influences. She may be assured of our hearty wishes for her success in her new field of labor.

The Board was fortunate in securing the services of Miss Mary E. Trask as Miss Braley's successor. Miss Trask has had long and successful experience in city Training school and in State Normal school work. For several years prior to coming here she had been a critic teacher in the Framingham State Normal school. Her

services from the beginning have been most acceptable, and will without question assist in maintaining the high character which the school has always enjoyed.

The work of the school would be greatly facilitated if it was located in a building constructed primarily for a Training school. The present building contains no normal class rooms; no room which can be utilized for a library; the class rooms are not adapted to practice classes; its hall is not a suitable one, and in many other ways it does not meet modern ideas of a Training school building. I recommend that the new school house which is contemplated for that section of the city be built for a Training school, and the present building be used for a regular Primary school.

Mr. Wm. E. Hatch,  
Superintendent of Schools.

Dear Sir:—

In compliance with your request, I herewith present the following report of the work of the Harrington Normal and Training school.

The past year has been an eventful one in the history of the school. The leave of absence granted the principal, the election of a normal assistant, the withdrawal of two of the regular teachers to fill positions in other schools of the city, the resignation of the vice-principal and the election of her successor have made many changes. Special mention should be made of the tireless activity and efficiency of the vice-principal, Miss Braley, who conducted the school in the absence of the principal. In the summer, she resigned this position to take charge of the Training school in Fall River, Mass. Miss Braley entered the Harrington school soon after its establishment, and has been closely connected with its development. Her removal to a school of equal importance with our own is a promotion which has been deferred for several years by increasing her salary when such positions were offered her, that our city might retain a teacher of such marked power.

These changes have opened the way for new plans of conducting the school. The training course has already been lengthened from a year and a half to two years. This lengthening of the course and the entrance and graduation of but one class a year have caused some irregularity this year, and results in the omission of the semi-annual graduating exercises at the close of the half year. After next June,

the yearly graduation will occur at the close of the year in December.

In the past, the supervision of the school and the training of the normal classes had been divided between the principal and the vice-principal. Under the new plan there are five normal instructors—principal, vice-principal, normal assistant, supervisor of drawing and supervisor of music. The principal has the entire supervision of the school and teaches psychology, pedagogy and methods of teaching arithmetic and history in the normal department. The vice-principal, Miss Trask, supervises in the absence of the principal, and teaches four hours a day in the normal department. The subjects assigned her are the history of education, the school laws of Massachusetts, and methods of teaching language, literature, reading, physiology and writing. The normal assistant, Miss Wood, teaches methods in nature study and geography in the normal department during the three hours of the morning session, and in the afternoon supervises the nature work in the primary schools of the city. Miss Gilbert and Mr. Butterfield each give one hour a week to normal teaching in drawing and music.

The course includes one year in normal work and one year of practice work. The practice is given under supervision and criticism, and is reinforced by at least one hour a day of normal work. The subjects studied in the normal department are psychology, pedagogy, including school management, history of education, school laws of Massachusetts, and methods of teaching arithmetic, geography, history, language, literature, nature study, including botany, geology and zoology, reading, physiology, music, drawing and writing. The normal work is chiefly professional, though some academic work is needed in physical geography and English, and much academic work is given in science preparatory to nature study.

The greater part of the normal course is devoted to the study of methods of teaching, and to the giving of teaching exercises by the pupil-teachers. Classes of children are frequently taught by the instructors in the presence of the normal students, and the regular teachers sometimes give illustrative lessons with their classes. When the pupil-teachers are sufficiently advanced, they teach classes of children in the presence of the instructors and the normal students, the lessons being thoroughly discussed after the children are dismissed from the recitation. During the latter part of this first or Junior year, the pupil-teachers assist in different grades. In these ways the undergraduate gains no little experience in teaching, and some experience in discipline before she takes charge of a room.

The chief work of the Junior year, however, is to give the normal student as broad a professional outlook as possible, and to make her acquainted with methods of teaching the subjects found in the curriculum for the first six years of school and the theoretical side of

school management. During her Senior year, she becomes familiar with the practical work of the school-room, the management of a class, the keeping of records, adjustment of work to a program, and gives attention to the minutiae of school keeping. Her work in this year is to secure a knowledge of the child's nature, his powers and his needs, and to acquire the skill in teaching that comes only with practice. No attempt is made to give her experience in more than one grade, though if she proves unsuccessful in a grade she may be transferred to one where her chances of success are better, or if she shows special adaptation for any grade, she may be changed to that grade. This work in the school-rooms covers the first six years of school, the three hundred and fifty children being accommodated in eight rooms. Regular teachers are placed in four of the rooms, the undergraduates serving as assistants and sometimes taking the room. In the other four rooms the Seniors have charge of the rooms.

The school has been hampered with the withdrawal of so many substitutes. I realize that every effort has been made to secure substitutes elsewhere; that the school has been drawn upon only as a last resort, and that it furnished but forty per cent. of the substitutes required last year, yet the results have been very unfortunate. On the average, nine per cent. of the pupil-teachers were withdrawn each day to substitute; 260½ days of substituting being given in the 200 days of the school year. I would call special attention to this matter, as the demands upon the school are constantly increasing, it having furnished thirty-five per cent. more substitutes in 1896 than in 1895, and the substituting during January of 1897 calling for almost ten per cent. of the pupil-teachers daily.

Some of the time, so many of the teachers were substituting that the normal work was suspended, and occasionally the principal and vice-principal were obliged to take charge of rooms. It is intended to distribute the substituting among the different pupil-teachers as far as the needs of the school will allow, but when the demands are great it sometimes happens that one pupil-teacher will lose more time than others by being sent out to substitute. A pupil-teacher this last year lost one hundred sixty hours of normal recitation from this cause. When two pupil teachers are placed in one room, each taking charge of the class while the other is having normal recitation, the loss of normal work to the one who goes out substituting means a corresponding loss to her companion teacher, who must omit her recitation to remain in charge of the room. A part of this normal work lost last year was made up in recitations after school with the principal and vice-principal, these instructors willingly prolonging their day for the good of the pupil-teachers, but still much of it remains to be added to the work of the coming year.

It would be a mistake to conclude that this substituting is wholly



an evil. On the contrary, a moderate amount of it is of advantage to the pupil-teacher. It throws her upon her own resources, tests her strength, and shows her the need of the training she is receiving, and its value. If no pupil-teacher were called upon to substitute more than one week at a time, the disadvantages would hardly outweigh the advantages that would come from this test of her teaching power.

As a result of the high standard demanded for admission to the school and of the thorough preparation given in the normal work of the Junior year, the majority of the teachers give satisfactory work in the Senior year, and are graduated without a question. Yet it is sometimes found that a teacher who stood high in her entrance examination, who has completed successfully the theoretical work in her study of methods, fails signally when she comes to deal with the children. With such the making of a teacher may be a process of growth, of development, and she is given every opportunity to prove that she has this capacity for growth. If after repeated effort she shows no gain, she is advised to seek some other occupation. When, on the contrary, she shows increasing power, though gained slowly, she is allowed to enter the next class on probation, and is encouraged to make every effort to secure greater skill. Frequently growth comes with the practice and in time she reaches success.

Again, a pupil-teacher may fail to reach a high standard in theoretical work, but may show aptness in the management of children. Should her failure in her Junior year be coupled with any such indications of strength, she too is promoted on probation, and, if she shows growth along the lines where she is lacking and is successful otherwise, is graduated. With every graduate there is presented to the Superintendent of Schools and the Training School Committee, a statement of her standing, including methods of teaching, discipline, scholarship, and the grade for which she is recommended. It is to be regretted that the urgent need of teachers sometimes compels the committee to place a graduate in a position for which her work at the Training school has proved her to be unfit, but as a rule this statement of a teacher's ability has influence in her appointment to a position. I feel sure that a knowledge of the facts stated in these recommendations would be helpful to the principals of the schools where these teachers are assigned, particularly when the teacher is weak on any point.

One year of practice under the most favorable conditions is not sufficient to give full development to a teacher's power, and we expect our graduates to show growth, marked growth, for several years after leaving the school. That such growth is attained is seen in the graduates who have been retained at the Harrington school, some of them having reached a high degree of success of which their undergraduate work gave little promise. But sometimes the teacher retrogrades in-

stead of improving after graduation. In one marked case that came under my observation, the graduate's discipline was such that had it occurred while she was at the Training school her fitness to graduate would have been seriously questioned, and failure to improve would have disqualified her for graduation.

This retrogression after graduation arises from two causes, the chief of which may be found in the teacher herself. The second cause is found in the increased responsibility that comes with the new position. The Training school cannot give the teacher experience in meeting these larger responsibilities; it can only prepare her for them. The school must not be considered a "teacher factory," turning out a finished product warranted to know everything. The material here with which the apprentice works is too valuable to permit of great freedom in working with it. The good of the children demands that the comparatively inexperienced teacher shall not exercise too great power, and the larger number of such teachers makes it desirable for the principal to keep more power in her own hands than would be necessary if there were but one such young teacher in the school. Nevertheless, in the latter part of her course the pupil-teacher is thrown more and more upon her own resources, that she may receive training in this line, and some responsibility devolves upon her for both teaching and discipline. When two teachers are assigned to one room, each has entire charge of the teaching and discipline while the other is having normal work, and each is held responsible for the teaching of certain subjects.

When the graduate is placed in a school where the principal has charge of a room, the help that can be given by a supervising principal is out of the question, and the young teacher is for the first time thrown entirely upon her own resources. Neither school can be held responsible for these conditions, and the graduate must recognize them and strengthen herself accordingly. This is the time to test the value of her training and to test also her integrity of purpose. She misses several incentives,—the close supervision that held her to her work, the spur of criticism from classmates and instructors, the demand which called for good work to insure her graduation from the Training school; and she misses also the advice and help concerning methods of teaching and discipline that could so readily be obtained from principal and normal instructors. It sometimes happens that the teacher, having secured her diploma, takes advantage of the freedom gained by the removal of these restraints, or if she does not consciously take advantage in this way she unconsciously relaxes her efforts, and her work suffers accordingly.

In some cities, the principal of the Training school is required to visit the school-rooms of the graduates for several months after graduation, that she may observe the effects of her training, and also give



to the teacher a little of the help which she has been receiving at the Training school. That a large majority of the graduates in our city have prospered without this help shows that such visits are not needed here. But the training given might be made more effective if the instructors were more familiar with the conditions of the schools of the city, particularly of the primary grades. An occasional half day spent by the principal in visiting these schools would make but little addition to the duties of the principal, and would furnish the desired knowledge.

The efficiency of a Normal and Training school as a preparation for teaching must be tested by the success of its graduates. Since so many of our graduates find a place in the schools of the city, ample opportunity is afforded for this test. Of the fifteen principals of the primary and country schools, four are graduates of the Training school; and of the one hundred twenty-five assistants below the High school, fifty-four are graduates of the Training school. To say that as a body they are not doing good work would be to condemn much of the teaching in our schools. On the contrary, I feel that we may point with pride to the strong force we have contributed to help supply the city's demand for good teachers.

In connection with the few of our graduates who have not realized our expectations, I feel constrained to say that while each graduate takes with her the warm personal interest of her instructors and earnest hopes of her success, the Training school would be strengthened and the purpose of its establishment better fulfilled if, after one year from graduation she did not meet the expectations of the Training school and the demands of the School Committee, the graduate should be dropped from the corps of teachers.

The teaching force would be further strengthened by the insertion of an age qualification in the requirements for admission to the Training school, and I would respectfully suggest that no candidate be admitted under the age of eighteen years. Almost without exception, the pupil-teacher of maturer years brings a ripeness of mind, a breadth of view and a dignity of bearing which are strong factors for success. The lack of these qualities has severely hampered some of the youngest of those pursuing the course at the school.

Without doubt the regular teachers assigned to the school are a source of much strength to the normal department as well as to the school. We rarely find among the pupil-teachers one who has any knowledge of the school-room except that gained as a pupil in it. They come to the work fresh from their studies at the High school, with no conception of what may be demanded of the children, with no ideal to guide their efforts, and no standard by which to recognize their success or lack of it. A young teacher can learn more of the technique of the school-room in one week in a well conducted school

than she can in a month in the normal class. The normal work is necessary; from it she learns much that could not be gained in the school-room, but the living illustration before her vitalizes the normal instruction.

It will readily be seen that the position of a regular teacher in this school is an important one. A teacher who is not prompt and conscientious in the discharge of her duties, not loyal to the principles which it is the aim of the school to inculcate and illustrate, not obedient to the regulations of the School Committee and principal, does much to undermine the strength of the school and the efficiency of the training given. But this is not enough—she must be able to control efficiently and wisely, to use good methods of teaching, and to exert a helpful influence upon the teachers with whom she comes in contact.

It gives me pleasure to say that almost without exception the regular teachers who have been employed here for longer or shorter periods, have been animated by a spirit of utmost loyalty to the school and the wishes of the principals, and that some of them have shown to a marked degree many of the qualifications which are demanded in the "model teacher." We do not recognize our regular teachers as model teachers, nor, with their present salary, should model work be demanded of them; but when such a teacher has once been placed at the school, it would seem a mistake to remove her from so important a position to supply the lesser needs of some other school in the city, or to allow another city to secure her services by the offer of a justly earned larger salary.

Whenever a new Training school is established the important question arises, "What will be the effect upon the children?" After seven and one-half years of such work, we may well look for the results which will answer this question. To put this matter to a test, I asked the principal of the grammar school to which our children are promoted, "How do the children promoted from this school compare, as a class, with the children trained in the other schools?" The prompt answer was, "As a class, they stand well, decidedly so." Again, the question of moral training received by the children is frequently presented, the idea being held that the discipline in a Training school must necessarily be weak. As the discipline of a school like this rests chiefly with the principal, the School Committee can control that matter by securing for the position one who has the ability to control under these peculiar and difficult conditions.

The change in the name of the school to Normal and Training school calls attention to the normal work attempted here. While we are sorry to part with the less pretentious but misleading name, Training school, we recognize the fitness of the new name. It still lacks one important word, "city," which would define our position and pre-

vent the misunderstanding that may arise from the unqualified use of the word Normal. Ours is a City Normal school; we do not attempt to compete with the well equipped State Normal school. If such were our aim, it could not be reached under our present plan. Instead, we aim to give our students some of the normal instructions received at these schools, and much of the training which the Normal schools under the most favorable conditions have failed to give, except by inducing the graduate to prolong her course. Experience has proved that both these factors are required for the successful preparation of a teacher, and the urgent need which schools like ours supply is for us sufficient excuse for being.

While normal work is given in most of the large Training schools of Massachusetts, still in others equally large and in almost all small Training schools, both within our State and beyond its borders, the name Training school means simply a practice school. In these schools the normal work is demanded before the student enters the school or is omitted entirely. The name City Normal and Training school applied to those schools which give both normal instruction and training, would prevent the misconception which is frequently found concerning the work of the schools called Training schools.

In what ways is our school entitled to assume the name of Normal with that of Training school? What does it lack to give it dignity as a Normal school in the eyes of the profession? These questions meet us when considering the change of name. The time given to this work surely entitles it to the name. The student at the Normal school spends eighteen and three-quarter hours a week in recitation, including laboratory work, manual training and some observation. The student here spends twenty-two hours a week in Normal recitation. In the two years of her course at the State Normal the student gives not quite fifteen hundred hours to recitation; in the two years here the student will give nearly one thousand hours to normal recitation. When we consider the comparatively small number of students here, thus giving each a greater opportunity for teaching exercises and criticism, and the fact that for one year some of this normal work is given while the teacher has several hours daily in the school-room, making the normal work doubly effective, it will be admitted that enough time is given to make this a recognized feature of our work.

The quality of the normal instruction in a city Training school may well be investigated. By its policy of liberal salaries, New Bedford should be able to secure good work in these lines. The fact that ever since its establishment the instructors of this school have been repeatedly invited to enter the normal schools, and that the salaries have frequently been increased to retain them here, may be sufficient comment upon the quality of the work.

The equipment in the way of reference books and apparatus de-

manded for broad normal training, should be considered when such school is established. In the past we have been hampered by the attempt to keep the expenses of this school nearly on a par with the other schools of the city. The injustice of this has become apparent. The mere expense of the working supplies for the twenty-seven pupil-teachers is a burden that should not be placed upon the regular school in the allotment of supplies. If the supplies for the children were given under the name of the Harrington school, and the supplies and books for the normal department were issued under that name, neither department would suffer on account of the needs or demands of the other.

I would like to call attention to the importance of a good equipment for this normal department. One of our ablest critics, himself a man thoroughly conversant with Normal schools, assures us that this is the only lack which would prevent our taking a creditable position as a City Normal school. As the School Committee have always been quick to recognize the needs of the school and prompt in appropriating whatever seemed a judicious expenditure of the funds entrusted to them, I feel sure they will not allow the work to be hindered by lack of equipment. The increase of membership in the normal classes and the lengthening and broadening of the normal course bring demands that cannot fail to be recognized.

The school is fortunate in being planted in a city like ours. With its large public library, fast appreciating the needs of the schools; with the admirable library at Fairhaven open to our students, and with the carefully selected pedagogical library at the Superintendent's office, many expensive works of reference are not needed. The subcommittee of the High and Grammar schools have always granted the loan of apparatus not possessed by us, and our own pedagogical library and collections are growing. Since so many of the schools of the city will be directly benefited through the good gained by their teachers in preparation here, and since a school of this kind is ever a centre from which radiates an influence always measured by its excellence, the claims of the school upon the city's treasury are apparent.

City Normal schools and Training schools have been accused of supplanting the State Normal schools. Again we repeat, that this school can in no way be considered a rival of the State Normal school. We do claim to do good normal work along the lines we attempt. "The good is ever the enemy of the best," yet since this best fails to reach many who would enter the profession of teaching, we are, in our own place in the polity of preparation, not a rival, not a substitute, but a supplement to this "best."

Respectfully submitted,

JOSEPHINE B. STUART, Principal.



## THE EVENING SCHOOLS.

The enrollment in the evening schools has been somewhat smaller than for the previous year, but the average attendance has been better.

These schools run very smoothly. The order in them is uniformly good. The teaching is also much better than in similar schools in many other cities, for only teachers of experience or training, or those possessing both are employed in our evening schools.

The largest proportion of those who attend the evening elementary schools are illiterates; or if they can read and write in some language, cannot do so in English. Many when they enter can scarcely understand a word of spoken English. When it is remembered that these persons labor hard throughout the day, and after getting home from their work perhaps have to walk some distance to their school, it is easy to see that they are acquiring knowledge under difficulties; since also they get but forty nights of schooling in the year, if they attend every night that the schools are in session their progress must necessarily be slow for this reason alone.

There is another considerable class who attend the evening schools who deserve much credit. It is composed of those who wish to add something to their small stock of acquired knowledge, especially in mathematics. The illiterates are compelled to attend; these others attend voluntarily, and their desire for self-improvement should be encouraged in every way.

An Evening High school ought to be organized in our city, wherein a course of study similar to the "Commercial Course" of the day schools should be offered. There are a great many young men and women in the city who have been forced to leave school at the end of their grammar school course or when they had almost completed it, who

would be glad to avail themselves of such a course. Having had some experience with the practical affairs of life, they realize, as they did not before, their deficiencies, and wish to remedy them. A little more knowledge of mathematics or of their own language, or how to keep simple bookkeeping accounts would be of great benefit to them in their daily affairs; perhaps a special knowledge of stenography or typewriting is what they need; and a course in history and civil government would help them to act more intelligently in matters of citizenship. If such a course was offered, I think it would be appreciated and would do much good.

The Evening Drawing school has been carried on as usual, with about the same number of students in attendance as in previous years. It was not thought expedient to continue the course in machine drawing, because of the smallness of the class the preceding year. But the Committee indicated its willingness to continue it, provided a class of ten pupils was formed. That number having expressed their desire for such a course, it was opened. The attendance upon it, however, has been disappointing as usual, and does not seem to warrant its farther maintenance.

### TEACHERS.

The character of any system of schools will depend chiefly on the teachers in those schools. Among the duties of the Superintendent, as specified in the Rules and Regulations of the Board, is this: "He shall make it an object of paramount interest to procure for the schools teachers of the best qualifications."

Who are teachers of the best qualifications? In my judgment they are those who are first of all refined in manner and speech, and always courteous in the treatment of their pupils; who are also well educated; are profes-



sionally trained for their duties and have a just appreciation of their noble work.

Are such teachers abundant? Are these qualifications too much to expect in teachers? My reply to the first question is that they are not to be had for the asking and not always for the seeking. There are many teachers who possess most or all of these qualifications; but there are far too many who are wanting in the essential ones.

To the second question I would reply that they are all necessary to the full success of every teacher; when one of them is missing the pupils suffer. But of them all, refinement and culture are most to be desired; the silent and active influences of these factors are more potent for good than anything else, and when possessed by the teacher their power is reflected in the manner of the whole school.

I fear at times that technical training is being given undue importance in these days. We hear much about methods. A good method in the hands of a teacher who is not skillful or is without enthusiasm, is of little worth. I would not disparage good methods in teaching, but I would not enthrone them as supreme.

It is no easy task to keep the schools supplied with good teachers. The supply is far below the demand for teachers of elementary schools. The Training school is doing a most excellent work in supplying our schools with good teachers; but it does not furnish enough.

Subjoined is a list of the resignations and appointments of teachers for the year. But one regular teacher failed of reelection. One or two others taken on trial were permitted to go for incompetency. The remainder resigned, either to seek more remunerative or more congenial employment; and several to enter the married state.

The growth of the schools requires the employment of a number of extra teachers each year besides those who

are needed to fill the places of those who resign. The teaching standard here is high, but not higher than it should be. It makes it more difficult, however, to fill vacancies with the kind of teachers desired than if it was lower. The appointment of teachers here is purely on merit; and if poor teachers are given positions it is by mistake and not from patronage. Sometimes it appears as if some were retained after their usefulness was past, or at least much impaired, and they probably are; but it is a very hard thing for the school authorities to decide at times what is their duty in such cases. If a teacher is young and does not do well, the course of action is clearer than in the case of a teacher who has grown old in the service.

The great majority of the teachers in the service of the city are sincere and earnest, well qualified for their work and skillful in teaching. They are constantly improving themselves professionally, and are as devoted to their duties as it is reasonable to expect. The exceptions are therefore are all the more conspicuous.

#### APPOINTMENTS.

William K. Norton,	Teacher of Mathematics, High school.
Byrd A. Peters,	Commercial Teacher, High school.
N. Emma Slack,	Assistant Fifth Street Grammar school.
Anastasia O'Keefe,	Assistant Middle Street Grammar school.
Susan Gifford,	Assistant Parker Street Grammar school.
Helen Ring,	Assistant Parker Street Grammar school.
Alice C. Munsey,	Principal Thompson Street Grammar school.
Mary L. Rogers,	Assistant Thompson Street school.
Charlotte M. Murkland,	Assistant Thompson Street school.
Annie L. Murkland,	Assistant Thompson Street school.
Helen G. Malley,	Assistant Merrimac Street school.
Ella W. Keene,	Assistant Clark Street Primary school.
Bertha C. Hathaway,	Assistant T. A. Greene Primary school.
Carrie W. Bliss,	Assistant Dartmouth Street Primary school.
Sylvia W. Paulding,	Assistant Cedar Grove Street Primary school.
Ruth E. Wilde,	Assistant S. A. Howland Primary school.
M. Evelyn Holloway,	Assistant Merrimac Street Primary school.

Mary E. Trask,	Assistant Principal Harrington Train. school.
Carolyn D. Wood,	Assistant Harrington Training school.
Martha D. Shute,	Assistant Clark Street Primary school.
Mary E. Kinney,	Assistant Clark Street Primary school.
Harriet S. Phillips,	Assistant Sewing Teacher.

## RESIGNATIONS AND DISMISSALS.

Emma B. McCullough,	Assistant Fifth Street Grammar school.
Katharine Commerford,	Assistant Middle Street Grammar school.
Willetta B. Nickerson,	Assistant Middle Street Grammar school.
Julia F. Coombs,	Assistant Parker Street Grammar school.
Evangeline Hathaway,	Principal Thompson Street school.
Annie L. Brownell,	Assistant Thompson Street school.
Mary E. Kinney,	Assistant Clark Street Primary school.
Anna H. Doolittle,	Assistant Merrimac Street Primary school.
Caroline O. Pierce,	Assistant Acushnet Avenue Primary school.
Julia A. Hunt,	Assistant I. W. Benjamin Primary school.
Fannie M. Clark,	Assistant Cedar Grove Street Primary school.
Anna W. Braley,	Assistant Principal Harrington Train. school.
Sarah A. Winslow,	Assistant Acushnet Avenue Primary school.
Sarah D. Ottiwell,	Assistant High school.

## ABSENT ON LEAVE.

Charles R. Allen,	High school.
Mary E. Austin.	High school.
Lottie M. Allen,	Fifth Street Grammar school.
Katharine Commerford,	Middle Street Grammar school.
Susan H. Lane,	Parker Street Grammar school.
Helen J. Kirk,	S. A. Howland Primary school.
Carrie L. Chapman,	Clark Street Primary school.
Addie West,	Merrimac Street Primary school.
Annie S. Homer,	Cedar Street Primary school.
Sara H. Kelley,	Dartmouth Street Primary school.

## TRANSFERS.

Elizabeth D. Hicks,	From Harrington Training to Middle Street.
Helen G. Malley,	From Merrimac Street to Thompson Street.
Ruth E. Wilde,	From Clark Street to S. A. Howland.
Ella W. Keene,	From Clark Street to Merrimac Street.
Mary C. Barstow,	From Dartmouth Street to Acushnet Avenue.

## TEMPORARY TEACHERS.

Janet Hunter,	Clara J. Schwartz,	Alice P. Terry.
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STATISTICS OF PUPIL-TEACHERS HARRINGTON TRAINING  
AND NORMAL SCHOOL.

Pupil-teachers enrolled in 1896,	24
Pupil-teachers graduated in 1896,	9
Pupil-teachers resigned in 1896,	2
Pupil-teachers in Senior class, December, 1896,	6
Pupil-teachers in Junior class, December, 1896,	7
Days substituting by pupil-teachers in 1896,	280½
Days absent for other causes,	122

## KINDERGARTENS.

The question whether Kindergartens shall or shall not become an organic part of the educational system of the city is at present one of very general public interest. It seems to have narrowed itself to a question of expediency rather than one of principle, however. The School Board, after careful consideration, has declared itself in favor of them and asked for an appropriation to start three,—one in the north, one in the south, and a third in the west part of the city. The appropriation was refused by the City Council on the ground, I believe, that while so many children of school age were not able to be accommodated in the present school-buildings, but were housed in unsuitable quarters, the city should not take upon itself additional burdens in the educational line.

It has also been urged that it would be unjust to undertake Kindergartens until the city was prepared to offer such instruction to all children whose parents may desire it; that to establish three schools when many more are needed would be class legislation.

There is much cogency in both these arguments, but I do not think they are insuperable objections or should be permitted to continually delay the introduction of Kindergarten instruction in our schools if such training is most desirable.

The city surely can afford to furnish adequate school

facilities for all of its children of school age, and is remiss in not doing so. I believe that it can also afford to adopt Kindergarten training as a part of its school system, and at once.

It may be asked by many who have given the subject little or no attention, why this sudden demand for Kindergartens and what is their claim? Space will not permit me to answer both these questions fully, but I will do so briefly. In answer to the first, I would say that while little has been said here until recently in regard to the introduction of Kindergartens, their claims for recognition have long been urged by many prominent educators both abroad and in this country. The West has led the East in their introduction. Over twenty years ago they became a part of the St. Louis school system under the administration of Dr. William T. Harris, now United States Commissioner of Education. They have since won their way to adoption in the public schools of a great many cities of this country, and private Kindergartens are very numerous.

Kindergartens were long since endorsed by the great conventions of German teachers after an exhaustive study of their results; and by the National Teachers' Association of America in 1873.

Their claims for recognition are set forth by Friedreich Froebel, the founder of the system, who based his arguments on half a century's practice in teaching and association with many other excellent educators.

He claimed "that the facilities of most children are stunted in infancy, and earliest youth by the want of appropriate mental food; that every child may be developed (may develop itself) into a self educator by appropriate amusements; and that in this manner pleasure may be made the most efficient instrument in the first stages of education."



The fundamental idea of Froebel was to create in the child an interest in learning by setting him to doing what he could be induced to do as a kind of amusement and by exercising his observing faculties in its games. In this he differs from those educators who treat the child's mind as a passive recipient of knowledge. The Kindergarten is the logical beginning of the system of manual training which is finding such favor in modern systems of education.

Kindergartens are regarded by some as charity schools; why I cannot understand, unless it is because many philanthropical people recognizing their great benefits and in despair at their tardy adoption into the public school system, have established them in many places and maintained them at private expense. If exciting cheerfulness, intelligence, activity, and fondness for learning in children, and by these and other means elevating their moral and spiritual natures, (and this is what the good Kindergartens do) is charity, the more of such charity we have the better.

But it is no more an act of charity to extend the school age downward and take children as pupils at three and a half years of age and give them a training suited to their tender years than it is to take them as is done now at five years of age.

There is another side of the question which ought to be considered in connection with the cost of Kindergartens. Now only about fifty per cent. of the pupils in the first grade are advanced each year. If Kindergarten training preceded the advent of these pupils into the primary grade, I do not believe this condition would exist in nearly so great a degree.

If Kindergarten children submit more readily to school discipline; if the average intelligence of the pupils is greatly superior to that of children who enter school with-



out previous training; if they are more accurate in observation, and seize ideas with more rapidity and exactness than other children; if children thus trained show special aptitude for arithmetic, drawing and natural sciences, and can express what they know with greater correctness and fluency; if all these claims are true, and they are made for pupils of the Kindergartens by one of the most profound as well as practical educators of the country, then the saving of time on the part of the pupils in the lowest primary grades would be a great saving of cost in those grades, and must be placed to the credit of Kindergartens in estimating the expense of maintaining them.

Kindergartens are expensive schools comparatively; but I believe they are worth all they cost. With one-fourth of its children being educated in private and parochial schools, the city can surely afford to offer in the public schools all that is best in educational training, and that includes the Kindergarten.

### THE COURSE OF STUDY.

One of the most important and difficult tasks of the Superintendent is the preparation and directing of the course of study in the schools under his charge. He acts then in the capacity of the expert of the School Board, to whom, however, he must submit his work for approval.

In framing it he must give due consideration to the laws of mental development and growth; he must consider the ultimate object to be attained by those who pursue the course; he must regard local conditions, especially the organization of the schools; he must determine the limitations of each study and adjust the relations between the various branches.

Therefore, a Superintendent must know his schools, his teachers and his city or town, before he attempts more

than a tentative course of study for his schools. He ought also to consult freely with principals and teachers in framing it; and in case of specialists, look to them for the subject matter in their special departments.

For the above reasons I have refrained, in the past, from printing a complete course of study for the schools; I have waited until I felt sure that the conditions were such as to warrant it. The teachers have not worked at haphazard during these past years, however. The work has been clearly defined and definitely carried on, with such changes and additions being made from time to time as the broadening curriculum demanded.

But now it seems to me that a complete course should be issued. Already I have had the supervisors and teachers of the special subjects outline in detail their work, and it is in print.

I have prepared a revised course in arithmetic, which has met with the approval of all the principals, and it will soon be submitted to the School Board for its consideration. All the other branches will soon be revised in the same manner. An additional course for the High school known as the Commercial Course, and which is printed in this report, was prepared during the summer vacation, and went into operation in the fall.

Any course of study prepared for use in the schools to-day will need revision within a few years in all probability, for these are times of rapid development. But I am sure that in the past decade more changes have been required in the curriculum to meet new conditions than will be required for a similar period in years to come.

## CONCLUSION.

To the School Board I desire to express my appreciation of its continued confidence and support; and I thank

the individual members for their assistance in administering the manifold and trying duties of my office.

Upon the teachers rests the chief responsibility of the success of the schools. I assure them that their willing coöperation with my plans has encouraged and aided me greatly in my work.

I thank the parents and the general public for their interest in the schools and for their cordial support of them. I hope they will familiarize themselves more and more with the aims and work of the schools by constant visitations and inquiry.

Respectfully submitted,

WM. E. HATCH,  
Superintendent of Schools.

## LIST OF TEACHERS.

### HIGH SCHOOL.

Summer street, between Mill and North streets.

Charles S. Moore, principal,	25 Seventh street,	\$2,750
Charles T. Bonney, Jr., sub-master,	95 Orchard street,	1,600
Charles R. Allen, science teacher,	276 Union street,	1,600
Wm. K. Norton, mathematical teacher,	351 County street,	1,500
Byrd A. Peters, commercial teacher,	89 Spring street,	1,200
Elizabeth P. Briggs, assistant,	37 Morgan street,	900
Lydia J. Cranston, “	129 Elm street,	900
Lucretia N. Smith, “	443 Cottage street,	900
Mabel W. Cleveland, “	81 North street,	900
Mary E. Austin, “	512 Kempton street,	900
Helen L. Hadley, “	198 Grinnell street,	900
Emma K. Shaw, “	72 High street,	900
Katharine M. Crabtree, “	107 Elm street,	800
Edmand E. Baudoin, military instr’r,	90 Washington street,	300

### GRAMMAR SCHOOLS.

#### FIFTH STREET :

Fifth street, corner of Russell street.

Grade.

	Allen F. Wood, principal,	111 Acushnet avenue,	\$1,900
9	Lydia A. Macreading, assistant,	33 Bonney street,	675
9	N. Emma Slack, “	64 Willis street,	675
8	Mary E. Allen, “	25 Madison street,	600
8	Sara E. Stoddard, “	352 County street,	600
7	Emma A. McAfee, “	63 Fifth street,	600
7	Mary W. Leymunion, “	56 South Emerson street,	600
6	Annie C. Hart, “	54 Fourth street,	600
6	Mary A. Kane, “	127 Grinnell street,	600
5	Grace L. Carver, “	62 Bedford street,	600
5	Lottie M. Allen, “	118 Fifth street,	550

## MIDDLE STREET:

Summer street, between Elm and Middle streets.

Grade.			
	George H. Tripp, principal,	Fairhaven,	\$1,900
9	Lucy B. Fish, assistant,	215 Maxfield street,	675
9	Lucy F. Winchester, "	Fairhaven,	675
8	Etta M. Abbott, "	233 Middle street,	600
8	Anastasia O'Keefe, "	35 Mill street,	600
7	Lizzie E. Omev, "	63 Thomas street,	600
7	Julia C. Gifford, "	18 Bedford street,	600
6	Clara S. Vincent, "	233 Middle street,	600
6	Helen McCoy, "	16 Fifth street,	600
5	Agnes J. Dunlap, "	65 Chestnut street,	600
5	Elizabeth D. Hicks, "	98 Hillman street,	475

## PARKER STREET:

Parker street, near County street.

Grade.			
	Nelson Freeman, principal,	87 State street,	\$1,900
9	Anna L. Jennings, assistant,	215 Maxfield street,	675
9	Helen Ring, "	271 Union street,	675
8	Susan H. Lane, "	64 Willis street,	600
8	Emma D. Larrabee, "	14 Parker street,	600
7	Regina M. Paul, "	29 Parker street,	600
7	Angenette Chace, "	35 Dartmouth street,	600
7	Susan Gifford, "	Fairhaven,	600
6	Elizabeth B. Brightman, "	14 Parker street,	600
6	Martha A. Hemenway, "	17 Lincoln street,	600
6	Mary L. Pettet, "	22 Pope street,	600
5	Emily A. Delano, "	East Freetown,	600
5	Daisy M. Butts, "	116 Willis street,	600
5	Mariana N. Richmond, "	34 High street,	600
Parker Street Annex, Lowe Block:			
6	Clara M. Woodward, assistant,	21 Lincoln street,	600
5	Alice A. Richardson, "	Hathaway road,	500
Parker Street Annex, Clark street:			
5	Janet Hunter, assistant,	55 North Sixth street,	600

## THOMPSON STREET:

Thompson street, corner of Crapo street.

Grade.

## Grammar Department:

7	Alice C. Munsey, principal,	107 Elm street,	\$1,200
6	Cora B. Cleveland, assistant,	81 North street,	600
6	Elizabeth M. Briggs, "	351 County street,	550
5	Mary A. Macy, "	90 Bedford street.	600
5	Ethel S. Parker, "	3 Lincoln street,	450
5	Annie L. Murkland, "	55 Walnut street,	425
5	Charlotte M. Murkland, "	55 Walnut street,	475

## Primary Department:

3 & 2	Mary L. Rogers, "	97 Acushnet avenue,	425
2	Angela F. Bowie, "	111 Dartmouth street.	500
1	Helen G. Malley, "	70 Rockland street,	500
1	Alice J. Lawrence, "	351 County street,	550

## HARRINGTON NORMAL AND TRAINING SCHOOL:

Court street, corner of Tremont street.

Josephine B. Stuart, principal,	417 Union street,	\$1,500
Mary E. Trask, vice-principal,	464 County street,	1,100
Carolyn D. Wood, nature supervisor,	157 Kempton street,	900
Belle Almy, assistant,	201 Cottage street,	550
Fannie M. Spooner, "	70 Morgan street,	550
Kate Moore, "	105 Park street,	550
Grace W. Russell, "	152 Purchase street,	500

## Seniors:

Per week.

Agnes D. Allen,	Fairhaven,	\$4.00
Florence M. Anthony,	192 Grinnell street,	4.00
Mary P. Brownell,	109 Campbell street,	4.00
Helen K. Covell,	446 County street,	4.00
Cecilia A. Deane,	77 Fifth street,	4.00
Mary V. Perry,	93 Bedford street,	4.00

## Juniors:

Harriet S. Ashley,	16 Crapo street.
Lucy S. Cushing,	197 Middle street.
Grace W. Dillingham,	66 Willis street.
Nellie E. Gibson,	118 South Sixth street.
Carolyn S. Jones,	55 Court street.
Jennie A. Murphy,	301 Arnold street.
Clara J. Wetherel,	24 Sherman street.



## PRIMARY SCHOOLS.

## ACUSHNET AVENUE:

Acushnet avenue, near Grinnell street.

## Grade.

	Jane C. Thompson, principal,	25 Madison street,	\$750
4	Hattie L. Finlan, assistant,	186 County street,	550
3	Sarah E. Kirwin, "	101 South Sixth street,	550
3	Nellie A. Walker, "	20 Seventh street,	550
3 & 2	Mary C. Barstow, "	337 South Orchard street,	550
2	Caroline S. Silva, "	81 Washington street,	550
2	Margaret H. Holmes, "	661 County street,	550
1	Julia M. Pilling, "	96 South Sixth street,	550
1	Harriet L. Cornell, "	163 Middle street,	550
1	Lida J. Brightman, "	111 Acushnet avenue,	550
1	Sylvia W. Paulding, "	89 Fourth street,	400

## I. W. BENJAMIN:

Division street, between Acushnet avenue and Second street.

## Grade.

	Jane E. Gilmore, principal,	245 Acushnet avenue,	\$800
4	Susan M. Tompkins, assistant	399 Union street,	550
4	Nellie W. Davis, "	115 Summer street,	550
3	Dora A. DeWolf, "	169 Middle street,	550
3	Marion Swasey, "	Cor. County & Forest sts.,	500
2	Alice A. Taylor, "	299 County street,	550
2	Sophie T. Anthony, "	180 Fourth street,	450
2	Eleanor V. Tripp, "	12 Sherman street,	550
1	Annie C. O'Connor, "	299 County street,	550
1	Mabel Bennett, "	79 Chestnut street,	550
1	Emma L. Gartland, "	51 Washington street,	550
1	Laura C. McCabe, "	153 Grinnell street,	450

## CEDAR STREET:

Cedar street, corner of Maxfield street.

## Grade.

4	Annie S. Homer, principal	117 Hillman street,	\$650
3	Bessie P. Pierce, assistant,	Hathaway road,	550
3 & 2	Abby D. Whitney, "	59 Hill street,	550
2	Annie L. Edwards, "	62 North street,	550
1	Mabel L. Hathaway, "	3 Lincoln street,	550
1	Ruth M. Tripp, "	399 Union street,	500

## CEDAR GROVE STREET:

Cedar Grove street, near Acushnet avenue.

Grade.			
4	Maria B. Clark, principal,	131 Chestnut street,	\$875
4	Louise M. Newhall, assistant,	331 Purchase street,	550
4	Kate Sweet,	287 Kempton street,	550
3	Minnie C. Ritter,	Fairhaven,	525
3	Julia W. Corish,	86 Mill street,	500
3	Isabella F. Winslow,	506 Purchase street,	550
2	Alice P. Winchester,	Fairhaven,	550
2	Annie G. Brawley,	68 Walden street,	550
2	Edith K. Weeden,	614 County street,	550
2	Sara Peckham,	106 Fourth street,	450
1	Gillian M. Gordon,	38 Fifth street,	425
1	Ruth E. Pease,	658 County street,	550
1	A. Gertrude Wheaton,	345 Cottage street,	550
1	Agnes F. Barker,		500
1	Harriet A. Taylor,	114 Willis street,	450
1	Grace N. Bramhall,		475

## CLARK STREET:

Clark street, corner of Myrtle street.

Grade.			
4	Elizabeth P. Spooner, principal,	129 Hillman street,	\$700
3	Isabella Luscomb, assistant,	245 Cedar street,	550
3	Martha D. Shute,	95 Elm street,	550
3	Carrie L. Chapman,	Fairhaven,	550
2	Annie S. Ray,	175 William street,	500
1	Lucy S. Leach,	163 Maxfield street,	550
1	Lucia E. Bliss,	44 Chestnut street,	425
1	Esther W. Paul,	29 Parker street,	425

## CANNONVILLE:

Rockdale avenue.

Grade.			
4 & 3	Adelaide J. McFarlin, principal,	Cor. Cottage & Kempton,	\$550
2 & 1	Florence A. Poole, assistant,	168 Mill street,	500

## DARTMOUTH STREET:

Dartmouth street, corner of Hickory.

Grade.			
4	Isadore F. Eldridge, principal,	44 Sherman street,	\$725
4	M. Eva Schwall, assistant,	21 Bonney street,	550
3	Edith M. B. Taber,	82 Walden street,	550
3	Sarah E. Slade,	37 Allen street,	450
2	Nellie H. Cook,	Masonic building,	550
2	Carrie W. Bliss,	233 Arnold street,	425
1	Annie F. Smith,	34 Bonney street,	550
1	Sara H. Kelley,	84 Spring street,	550
1	Grace H. Potter,	100 Madison street,	550

## THOMAS A. GREENE:

Fourth street, corner of Madison street.

Grade.

4	Sarah H. Cranston, principal,	129 Elm street,	\$675
4	Bertha C. Hathaway, assistant,	269 Arnold street,	400
3	Eliza H. Sanford,	" 112 Fourth street,	550
3	Caroline E. Bonney,	" 152 Bonney street,	550
2	Sarah E. Sears,	" 350 County street,	550
2 & 1	Lillie C. Tillinghast,	" 161 William street,	550
1	Annie L. Macreading,	" 33 Bonney street,	550
1	Ruth E. Howland,	" 83 Bonney street,	450

## SYLVIA ANN HOWLAND:

Pleasant street, between High and Kempton streets.

Grade.

4	Carrie E. Footman, principal,	72 State street,	\$625
3	Mary J. Graham, assistant,	82 Court street,	550
2	Helen J. Kirk,	" 27 Franklin street,	550
1	Amelia Lincoln,	" 87 Walden street,	550
1	Ruth E. Wilde,	" 35 Chestnut street,	425

## MERRIMAC STREET:

Merrimac street, corner of State street.

Grade.

1	Harriet S. Damon, principal,	223 Pleasant street,	\$650
1	Ella W. Keene, assistant,	131 South Second street,	550
2	Anna I. Dexter,	" 11 Franklin street,	550
3	Addie West,	" 232 Pleasant street,	550
3 & 4	Ella M. Robinson,	" 79 Campbell street,	550
4	Julia A. Ellis,	" 206 Pleasant street,	550

## MAXFIELD STREET:

Maxfield street, corner of Pleasant street.

	Elizabeth Bennett, principal,	46 State street,	\$600
	Annie E. Pearce, assistant,	151 Hillman street,	550
	Clara C. M. Gage,	" 78 Mill street,	550
	Mary E. Pasho,	" 169 Grinnell street,	550

## MILL SCHOOLS.

## NORTH:

Lowe Block, 923 Acushnet avenue.

	Emma R. Wentworth, principal,	117 Hillman street,	\$682
	Mary L. Hillman, assistant,	81 Mill street,	500

## SOUTH :

In Thompson Street School Building.

Lucy J. Remington, principal,	67 Fifth street,	\$682
Ruby M. Tripp, assistant,	407 Cedar street,	500

## COUNTRY SCHOOLS.

## ACUSHNET :

Charlotte C. Carr, principal,	56 Spring street,	\$700
Belle B. Wheeler, assistant,	2 Mt. Vernon street,	600
Harriet N. Hyatt, “	Tarkiln Hill road,	550

## CLARK'S POINT :

Mary E. McAuliffe, principal,	380 Purchase street,	\$600
Anna H. Bartlett, assistant,	95 County street,	400

## NORTH :

Mary I. Ashley, principal,	Clifford,	\$600
Mary G. Fuller, assistant,	Clifford,	450

## PLAINVILLE :

Grace B. Ashley, principal,	Shawmut,	\$425
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## ROCKDALE :

Lillian T. Thomas, principal,	661 County street,	\$600
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## SPECIAL TEACHERS.

## DRAWING :

Mary W. Gilbert, supervisor,	82 Spring street,	\$1,300
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## SINGING :

F. H. Butterfield,	93 Willis street,	\$1,900
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## MANUAL TRAINING :

Edwin R. King,	271 Pleasant street,	\$1,400
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## COOKING :

S. Agnes Donham,	226 Kempton street,	\$600
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## SEWING :

Carrie H. Richmond, principal,	43 Fifth street,	\$600
Gertrude H. Leonard, assistant,	23 Seventh street,	525
Harriet S. Phillips, “	123 Rockland street,	525

## EVENING DRAWING SCHOOL.

In High School Building.

Per Night.

George H. Nye, principal	323 Cottage street,	\$4.50
Franklin E. Smith, assistant,	131 County street,	4.00
Katharine M. Crabtree, “	107 Elm street,	3.00
Oliver H. Gardner, “	197 Chestnut street,	3.00

## EVENING ELEMENTARY SCHOOLS.

## CEDAR GROVE STREET :

In the Cedar Grove Street School Building.

		Per Night.
Nelson Freeman, principal,	87 State street,	\$3.50
Helen McCoy, assistant,		1.50
Annie G. Brawley, "		1.50
Nannie P. Slocum, "		1.50
Mary R. Hinckley, "		1.50
Louise M. Newhall, "		1.50
Abby R. Johnson, "		1.50
Helen G. Malley, "		1.50
Isabella F. Winslow, "		1.50
Susan E. R. Butts, "		1.50
Isadore B. Lee, "		1.50
Isabel Horr, "		1.50
Ruth M. Tripp, "		1.50
Myra A. Tinkham, "		1.50
Mina M. Greene, "		1.50

## FIFTH STREET :

In the Fifth Street School Building.

		Per Night.
George H. Tripp, principal,	Fairhaven,	\$3.50
Sara E. Stoddard, assistant,		1.50
Mary J. Graham, "		1.50
Belle Almy, "		1.50
Clara S. Vincent, "		1.50
Sara Peckham, "		1.50
Nellie H. Cook, "		1.50
Julia C. Gifford, "		1.50
Etta M. Abbott, "		1.50
Annie C. Hart, "		1.50
Lillie C. Tillinghast, "		1.50
Catharine T. Johnson, "		1.50

## MERRIMAC STREET :

In the Merrimac Street School Building.

		Per Night.
Mary A. Kane, principal,	127 Grinnell street,	\$3.00
Harriet L. Cornell, assistant,		1.50
Mabel L. Hathaway, "		1.50
Sarah E. Kirwin, "		1.50
Jennie A. Murphy, "		1.50
Ella W. Keene, "		1.50

## PARKER STREET :

## In the Parker Street School Building.

Per Night.

Agnes J. Dunlap, principal,	65 Chestnut street,	\$3.00
Emma D. Larrabee, assistant,		1.50
Regina M. Paul,	"	1.50
Julia W. Corish,	"	1.50
Esther W. Paul,	"	1.50
Sara L. Tallman,	"	1.50

## THOMPSON STREET :

## In the Thompson Street School Building.

Per Night.

Joseph P. Kennedy, principal,	65 Allen street,	\$3.50
Janet Hunter, assistant,		1.50
Kate K. Whelden,	"	1.50
Emma L. Gartland,	"	1.50
Clara M. Woodward,	"	1.50
Annie F. Smith,	"	1.50
Alice A. Taylor,	"	1.50
Hannah V. Hathaway,	"	1.50
Mary L. Rogers,	"	1.50
Mary V. Perry,	"	1.50
Cecilia A. Deane,	"	1.50
Nellie E. Gibson,	"	1.50









## LIST OF TEACHERS.

### HIGH SCHOOL.

Summer street, between Mill and North streets.

Charles S. Moore, principal,	25 Seventh street,	\$2,750
Charles T. Bonney, Jr., sub-master,	95 Orchard street,	1,600
Charles R. Allen, science teacher,	276 Union street,	1,600
Wm. K. Norton, mathematical teacher,	351 County street,	1,500
Byrd A. Peters, commercial teacher,	89 Spring street,	1,200
Elizabeth P. Briggs, assistant,	37 Morgan street,	900
Lydia J. Cranston, “	129 Elm street,	900
Lucretia N. Smith, “	443 Cottage street,	900
Mabel W. Cleveland, “	81 North street,	900
Mary E. Austin, “	512 Kempton street,	900
Helen L. Hadley, “	198 Grinnell street,	900
Emma K. Shaw, “	72 High street,	900
Katharine M. Crabtree, “	107 Elm street,	800
Edmand E. Baudoin, military instr'r,	90 Washington street,	300

### GRAMMAR SCHOOLS.

#### FIFTH STREET:

Fifth street, corner of Russell street.

Grade.			
	Allen F. Wood, principal,	111 Acushnet avenue,	\$1,900
9	Lydia A. Macreading, assistant,	33 Bonney street,	675
9	N. Emma Slack, “	64 Willis street,	675
8	Mary E. Allen, “	25 Madison street,	600
8	Sara E. Stoddard, “	352 County street,	600
7	Emma A. McAfee, “	63 Fifth street,	600
7	Mary W. Leymunion, “	56 South Emerson street,	600
6	Annie C. Hart, “	54 Fourth street,	600
6	Mary A. Kane, “	127 Grinnell street,	600
5	Grace L. Carver, “	62 Bedford street,	600
5	Lottie M. Allen, “	118 Fifth street,	550

## MIDDLE STREET:

Summer street, between Elm and Middle streets.

## Grade.

	George H. Tripp, principal,	Fairhaven,	\$1,900
9	Lucy B. Fish, assistant,	215 Maxfield street,	675
9	Lucy F. Winchester, "	Fairhaven,	675
8	Etta M. Abbott, "	233 Middle street,	600
8	Anastasia O'Keefe, "	35 Mill street,	600
7	Lizzie E. Omev, "	63 Thomas street,	600
7	Julia C. Gifford, "	18 Bedford street,	600
6	Clara S. Vincent, "	233 Middle street,	600
6	Helen McCoy, "	16 Fifth street,	600
5	Agnes J. Dunlap, "	65 Chestnut street,	600
5	Elizabeth D. Hicks, "	98 Hillman street,	475

## PARKER STREET:

Parker street, near County street.

## Grade.

	Nelson Freeman, principal,	87 State street,	\$1,900
9	Anna L. Jennings, assistant,	215 Maxfield street,	675
9	Helen Ring, "	271 Union street,	675
8	Susan H. Lane, "	64 Willis street,	600
8	Emma D. Larrabee, "	14 Parker street,	600
7	Regina M. Paul, "	29 Parker street,	600
7	Angenette Chace, "	35 Dartmouth street,	600
7	Susan Gifford, "	Fairhaven,	600
6	Elizabeth B. Brightman, "	14 Parker street,	600
6	Martha A. Hemenway, "	17 Lincoln street,	600
6	Mary L. Pettey, "	22 Pope street,	600
5	Emily A. Delano, "	East Freetown,	600
5	Daisy M. Butts, "	116 Willis street,	600
5	Mariana N. Richmond, "	34 High street,	600

## Parker Street Annex, Lowe Block:

6	Clara M. Woodward, assistant,	21 Lincoln street,	600
5	Alice A. Richardson, "	Hathaway road,	500

## Parker Street Annex, Clark street:

5	Janet Hunter, assistant,	55 North Sixth street,	600
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## THOMPSON STREET:

Thompson street, corner of Crapo street.

Grade.

## Grammar Department:

7	Alice C. Munsey, principal,	107 Elm street,	\$1,200
6	Cora B. Cleveland, assistant,	81 North street,	600
6	Elizabeth M. Briggs, "	351 County street,	550
5	Mary A. Macy, "	90 Bedford street,	600
5	Ethel S. Parker, "	3 Lincoln street,	450
5	Annie L. Murkland, "	55 Walnut street,	425
5	Charlotte M. Murkland, "	55 Walnut street,	475

## Primary Department:

3 & 2	Mary L. Rogers, "	97 Acushnet avenue,	425
2	Angela F. Bowie, "	111 Dartmouth street,	500
1	Helen G. Malley, "	70 Rockland street,	500
1	Alice J. Lawrence, "	351 County street,	550

## HARRINGTON NORMAL AND TRAINING SCHOOL:

Court street, corner of Tremont street.

Josephine B. Stuart, principal,	417 Union street,	\$1,500
Mary E. Trask, vice-principal,	464 County street,	1,100
Carolyn D. Wood, nature supervisor,	157 Kempton street,	900
Belle Almy, assistant,	201 Cottage street,	550
Fannie M. Spooner, "	70 Morgan street,	550
Kate Moore, "	105 Park street,	550
Grace W. Russell, "	152 Purchase street,	500

## Seniors:

Agnes D. Allen,	Fairhaven,	Per week. \$4.00
Florence M. Anthony,	192 Grinnell street,	4.00
Mary P. Brownell,	109 Campbell street,	4.00
Helen K. Covell,	446 County street,	4.00
Cecilia A. Deane,	77 Fifth street,	4.00
Mary V. Perry,	93 Bedford street,	4.00

## Juniors:

Harriet S. Ashley,	16 Crapo street.
Lucy S. Cushing,	197 Middle street.
Grace W. Dillingham,	66 Willis street.
Nellie E. Gibson,	118 South Sixth street.
Carolyn S. Jones,	55 Court street.
Jennie A. Murphy,	301 Arnold street.
Clara J. Wetherel,	24 Sherman street.



## PRIMARY SCHOOLS.

## ACUSHNET AVENUE:

Acushnet avenue, near Grinnell street.

## Grade.

	Jane C. Thompson, principal,	25 Madison street,	\$750
4	Hattie L. Finlan, assistant,	186 County street,	550
3	Sarah E. Kirwin,	" 101 South Sixth street,	550
3	Nellie A. Walker,	" 20 Seventh street,	550
3 & 2	Mary C. Barstow,	" 337 South Orchard street,	550
2	Caroline S. Silva,	" 81 Washington street,	550
2	Margaret H. Holmes,	" 661 County street,	550
1	Julia M. Pilling,	" 96 South Sixth street,	550
1	Harriet L. Cornell,	" 163 Middle street,	550
1	Lida J. Brightman,	" 111 Acushnet avenue,	550
1	Sylvia W. Paulding,	" 89 Fourth street,	400

## I. W. BENJAMIN:

Division street, between Acushnet avenue and Second street.

## Grade.

	Jane E. Gilmore, principal,	245 Acushnet avenue,	\$800
4	Susan M. Tompkins, assistant	399 Union street,	550
4	Nellie W. Davis,	" 115 Summer street,	550
3	Dora A. DeWolf,	" 169 Middle street,	550
3	Marion Swasey,	" Cor. County & Forest sts.,	500
2	Alice A. Taylor,	" 299 County street,	550
2	Sophie T. Anthony,	" 180 Fourth street,	450
2	Eleanor V. Tripp,	" 12 Sherman street,	550
1	Annie C. O'Connor,	" 299 County street,	550
1	Mabel Bennett,	" 79 Chestnut street,	550
1	Emma L. Gartland,	" 51 Washington street,	550
1	Laura C. McCabe,	" 153 Grinnell street,	450

## CEDAR STREET:

Cedar street, corner of Maxfield street.

## Grade.

4	Annie S. Homer, principal	117 Hillman street,	\$650
3	Bessie P. Pierce, assistant,	Hathaway road,	550
3 & 2	Abby D. Whitney,	" 59 Hill street,	550
2	Annie L. Edwards,	" 62 North street,	550
1	Mabel L. Hathaway,	" 3 Lincoln street,	550
1	Ruth M. Tripp,	" 399 Union street,	500

## CEDAR GROVE STREET :

Cedar Grove street, near Acushnet avenue.

## Grade.

4	Maria B. Clark, principal,	131 Chestnut street,	\$875
4	Louise M. Newhall, assistant,	331 Purchase street,	550
4	Kate Sweet,	287 Kempton street,	550
3	Minnie C. Ritter,	Fairhaven,	525
3	Julia W. Corish,	86 Mill street,	500
3	Isabella F. Winslow,	506 Purchase street,	550
2	Alice P. Winchester,	Fairhaven,	550
2	Annie G. Brawley,	68 Walden street,	550
2	Edith K. Weeden,	614 County street,	550
2	Sara Peckham,	106 Fourth street,	450
1	Gillian M. Gordon,	38 Fifth street,	425
1	Ruth E. Pease,	658 County street,	550
1	A. Gertrude Wheaton,	345 Cottage street,	550
1	Agnes F. Barker,		500
1	Harriet A. Taylor,	114 Willis street,	450
1	Grace N. Bramhall,		475

## CLARK STREET :

Clark street, corner of Myrtle street.

## Grade.

4	Elizabeth P. Spooner, principal,	129 Hillman street,	\$700
3	Isabella Luscomb, assistant,	245 Cedar street,	550
3	Martha D. Shute,	95 Elm street,	550
3	Carrie L. Chapman,	Fairhaven,	550
2	Annie S. Ray,	175 William street,	500
1	Lucy S. Leach,	163 Maxfield street,	550
1	Lucia E. Bliss,	44 Chestnut street,	425
1	Esther W. Paul,	29 Parker street,	425

## CANNONVILLE :

Rockdale avenue.

## Grade.

4 & 3	Adelaide J. McFarlin, principal,	Cor. Cottage & Kempton,	\$550
2 & 1	Florence A. Poole, assistant,	168 Mill street,	500

## DARTMOUTH STREET :

Dartmouth street, corner of Hickory.

## Grade.

4	Isadore F. Eldridge, principal,	44 Sherman street,	\$725
4	M. Eva Schwall, assistant,	21 Bonney street,	550
3	Edith M. B. Taber,	82 Walden street,	550
3	Sarah E. Slade,	37 Allen street,	450
2	Nellie H. Cook,	Masonic building,	550
2	Carrie W. Bliss,	233 Arnold street,	425
1	Annie F. Smith,	34 Bonney street,	550
1	Sara H. Kelley,	84 Spring street,	550
1	Grace H. Potter,	100 Madison street,	550

## THOMAS A. GREENE:

Fourth street, corner of Madison street.

Grade.

4	Sarah H. Cranston, principal,	129 Elm street,	\$675
4	Bertha C. Hathaway, assistant,	269 Arnold street,	400
3	Eliza H. Sanford,	" 112 Fourth street,	550
3	Caroline E. Bonney,	" 152 Bonney street,	550
2	Sarah E. Sears,	" 350 County street,	550
2 & 1	Lillie C. Tillinghast,	" 161 William street,	550
1	Annie L. Macreading,	" 33 Bonney street,	550
1	Ruth E. Howland,	" 83 Bonney street,	450

## SYLVIA ANN HOWLAND:

Pleasant street, between High and Kempton streets.

Grade.

4	Carrie E. Footman, principal,	72 State street,	\$625
3	Mary J. Graham, assistant,	82 Court street,	550
2	Helen J. Kirk,	" 27 Franklin street,	550
1	Amelia Lincoln,	" 87 Walden street,	550
1	Ruth E. Wilde,	" 35 Chestnut street,	425

## MERRIMAC STREET:

Merrimac street, corner of State street.

Grade.

1	Harriet S. Damon, principal,	223 Pleasant street,	\$650
1	Ella W. Keene, assistant,	131 South Second street,	550
2	Anna I. Dexter,	" 11 Franklin street,	550
3	Addie West,	" 232 Pleasant street,	550
3 & 4	Ella M. Robinson,	" 79 Campbell street,	550
4	Julia A. Ellis,	" 206 Pleasant street,	550

## MAXFIELD STREET:

Maxfield street, corner of Pleasant street.

	Elizabeth Bennett, principal,	46 State street,	\$600
	Annie E. Pearce, assistant,	151 Hillman street,	550
	Clara C. M. Gage,	" 78 Mill street,	550
	Mary E. Pasho,	" 169 Grinnell street,	550

## MILL SCHOOLS.

## NORTH:

Lowe Block, 923 Acushnet avenue.

	Emma R. Wentworth, principal,	117 Hillman street,	\$682
	Mary L. Hillman, assistant,	81 Mill street,	500

SOUTH :

In Thompson Street School Building.

Lucy J. Remington, principal,	67 Fifth street,	\$682
Ruby M. Tripp, assistant,	407 Cedar street,	500

COUNTRY SCHOOLS.

ACUSHNET :

Charlotte C. Carr, principal,	56 Spring street,	\$700
Belle B. Wheeler, assistant,	2 Mt. Vernon street,	600
Harriet N. Hyatt,        “	Tarkiln Hill road,	550

CLARK'S POINT :

Mary E. McAuliffe, principal,	380 Purchase street,	\$600
Anna H. Bartlett, assistant,	95 County street,	400

NORTH :

Mary I. Ashley, principal,	Clifford,	\$600
Mary G. Fuller, assistant,	Clifford,	450

PLAINVILLE :

Grace B. Ashley, principal,	Shawmut,	\$425
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ROCKDALE :

Lillian T. Thomas, principal,	661 County street,	\$600
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SPECIAL TEACHERS.

DRAWING :

Mary W. Gilbert, supervisor,	82 Spring street,	\$1,300
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SINGING :

F. H. Butterfield,	93 Willis street,	\$1,900
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MANUAL TRAINING :

Edwin R. King,	271 Pleasant street,	\$1,400
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COOKING :

S. Agnes Donham,	226 Kempton street,	\$600
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SEWING :

Carrie H. Richmond, principal,	43 Fifth street,	\$600
Gertrude H. Leonard, assistant,	23 Seventh street,	525
Harriet S. Phillips,        “	123 Rockland street,	525

EVENING DRAWING SCHOOL.

In High School Building.

		Per Night.
George H. Nye, principal	323 Cottage street,	\$4.50
Franklin E. Smith,        assistant,	131 County street,	4.00
Katharine M. Crabtree,        “	107 Elm street,	3.00
Oliver H. Gardner,        “	197 Chestnut street,	3.00

## EVENING ELEMENTARY SCHOOLS.

## CEDAR GROVE STREET:

In the Cedar Grove Street School Building.

		Per Night.
Nelson Freeman, principal,	87 State street,	\$3.50
Helen McCoy, assistant,		1.50
Annie G. Brawley,	"	1.50
Nannie P. Slocum,	"	1.50
Mary R. Hinckley,	"	1.50
Louise M. Newhall,	"	1.50
Abby R. Johnson,	"	1.50
Helen G. Malley,	"	1.50
Isabella F. Winslow,	"	1.50
Susan E. R. Butts,	"	1.50
Isadore B. Lee,	"	1.50
Isabel Horr,	"	1.50
Ruth M. Tripp,	"	1.50
Myra A. Tinkham,	"	1.50
Mina M. Greene,	"	1.50

## FIFTH STREET:

In the Fifth Street School Building.

		Per Night.
George H. Tripp, principal,	Fairhaven,	\$3.50
Sara E. Stoddard, assistant,		1.50
Mary J. Graham,	"	1.50
Belle Almy,	"	1.50
Clara S. Vincent,	"	1.50
Sara Peckham,	"	1.50
Nellie H. Cook,	"	1.50
Julia C. Gifford,	"	1.50
Etta M. Abbott,	"	1.50
Annie C. Hart,	"	1.50
Lillie C. Tillinghast,	"	1.50
Catharine T. Johnson,	"	1.50

## MERRIMAC STREET:

In the Merrimac Street School Building.

		Per Night.
Mary A. Kane, principal,	127 Grinnell street,	\$3.00
Harriet L. Cornell, assistant,		1.50
Mabel L. Hathaway,	"	1.50
Sarah E. Kirwin,	"	1.50
Jennie A. Murphy,	"	1.50
Ella W. Keene,	"	1.50

## PARKER STREET :

## In the Parker Street School Building.

Per Night.

Agnes J. Dunlap, principal,	65 Chestnut street,	\$3.00
Emma D. Larrabee, assistant,		1.50
Regina M. Paul,	"	1.50
Julia W. Corish,	"	1.50
Esther W. Paul,	"	1.50
Sara L. Tallman,	"	1.50

## THOMPSON STREET :

## In the Thompson Street School Building.

Per Night.

Joseph P. Kennedy, principal,	65 Allen street,	\$3.50
Janet Hunter, assistant,		1.50
Kate K. Whelden,	"	1.50
Emma L. Gartland,	"	1.50
Clara M. Woodward,	"	1.50
Annie F. Smith,	"	1.50
Alice A. Taylor,	"	1.50
Hannah V. Hathaway,	"	1.50
Mary L. Rogers,	"	1.50
Mary V. Perry,	"	1.50
Cecilia A. Deane,	"	1.50
Nellie E. Gibson,	"	1.50









1897—CITY DOCUMENT No. 7.

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EIGHTEENTH ANNUAL REPORT  
OF THE  
BOARD OF HEALTH,  
City and Quarantine Physician  
OF THE  
CITY OF NEW BEDFORD,  
TO THE  
CITY COUNCIL,  
FOR THE YEAR 1896.

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NEW BEDFORD:  
E. ANTHONY & SONS, Incorp., CITY PRINTERS.  
1897.



# REPORT.

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OFFICE OF BOARD OF HEALTH,

January 1, 1897.

*To His Honor, the Mayor, and Gentlemen of the City  
Council of the City of New Bedford.*

GENTLEMEN :—The Board of Health herewith respectfully submit their eighteenth annual report.

The Board are convinced that the duties assumed by them, in connection with reporting, management and care of contagious diseases were well taken, and with the co-operation of the physicians and the School Board, the result of the Board's action has been very apparent in the better control of these diseases in our public schools.

Both diphtheria and scarlet fever are more apt to affect children than adults, and it is in the schools that, with proper precautions, these diseases can be controlled, and the number of cases so reduced to a minimum.

The most important application of the methods of modern microscopical research for the use of health officers is the bacteriological test of the throat in cases of suspected diphtheria.

By means of this test the diagnosis of diphtheria is made certain, and no time need be lost in taking the necessary steps to protect the community. On the other hand, if the result of the test is negative, the child may at once return to school, and the anxiety and expense entailed by delay is avoided.

The only weak spot in the present method of caring for diphtheria in our city is the delay which occurs in getting



returns from the State Board of Health. When this Board first undertook the care of the diphtheria testing, samples were forwarded to Dr. H. C. Ernst of Harvard Medical Laboratory and returned in 36 hours or something less. The cost was about \$3.50 per sample, and the service was unsatisfactory only because of the delay, the element of time, as may be readily seen, being of the utmost importance to the patient, as well as to the community represented by the Board.

The unavoidable delay of from 24 to 36 hours has become, since the State Board of Health took up the management of this testing, stretched out to an interval of from two days to a week. To remedy this state of affairs, the Board proposes to establish its own laboratory for bacteriological testing, and thus bring this part of its work to the highest state of efficiency.

The importance of this part of the Board's work can hardly be overestimated. Nothing is more expensive than disease, and with the enforcement and contemplated improvement of this department, it is practically impossible for any serious epidemic of contagious disease to occur in our city.

Following are the specifications for collection and disposal of garbage :

The contractor to give his personal attention.

The private team of said contractor to be at the disposal of the Board of Health.

#### THE MATERIAL TO BE COLLECTED.

House and fish offal, or any quickly decomposing matter, such as decayed fruit, market refuse and dead animals of all kinds, shells, fish, etc., that may accumulate on the wharves.

#### THE TIME.

House offal must be collected from the 1st of May to the 1st of November, three times per week. From the 1st of November to the 1st of May, twice per week.

Offal from hotels, restaurants, fish markets and fruit stores must be collected daily throughout the year.

All dead or live animals to be removed and buried whenever called upon to do so. When requested, animals to be killed by collector.

All other refuse not enumerated above to be taken at any and all times when discovered, or by order of the Board of Health.

To respond night or day to all calls from police, on account of dead animals in street or public places.

To remove, subject to call, all garbage, etc., from public or private halls where dinners, suppers, or collations have been served.

#### MEANS OF TRANSPORTATION.

House offal must be collected in tight iron-bound barrels with galvanized iron covers, not to be less than six (6) inches in depth, subject to the approval of the Board of Health.

Fish offal must be collected in air-tight barrels, furnished by the dealers, subject to the approval of the Board of Health.

Dead animals must be carted through the streets in tight covered gears, suitable for the purpose, subject to the approval of the Board of Health.

#### LIMITS FROM WHICH COLLECTIONS MUST BE MADE.

Commencing at the Acushnet river at the eastern termination of that part of Belleville road that runs easterly from the Acushnet river nearest to the Nash road; thence on said Belleville road to Acushnet avenue; thence southerly on said avenue to the Nash road; thence on the Nash road to Mount Pleasant; thence from Mount Pleasant to Hathaway road; thence westerly on said Hathaway road to Shawmut avenue; thence southerly on said Shawmut avenue to Durfee street; thence westerly on Durfee street to Rockdale avenue; thence southerly on said Rockdale avenue to Kempton street; thence westerly on Kempton street to Dartmouth line; thence on Dartmouth line to Clark's cove; thence from Clark's cove on a line with Cove road easterly to the Acushnet river.

#### DISPOSAL OF MATERIAL.

The material must not be used or sold for feeding animals, and must be disposed of in a manner satisfactory to the Board of Health.

Dead animals must be disposed of by burial or otherwise in such a manner as to cause no nuisance, satisfactory to the Board of Health.

Details of the manner in which the contractor proposes to dispose of the material collected must be submitted with the bid.

The position of the city under this contract the Board considers absolutely safe. The method of disposal (ex-

traction of the raw or uncultured garbage by naphtha at high temperature and subsequent drying), is approved by the Board; while at the same time, so far as this method is experimental, the city is in no way paying for the experiment or responsible for its success. It is safe to estimate that such an experiment, assuming that the same care and attention to detail were given to public affairs as private, would cost the city \$50,000.

In case of failure of the proposed system of disposal, the present contractor has sufficient land well adapted to the disposal of garbage by burial; a method which, while not being ideal, has been satisfactory; but two complaints having been received in the four years it has been in use, the causes of both of which were promptly and easily remedied.

Each case of diphtheria, scarlet and typhoid fever have been investigated on being reported to the Board, with the idea of obtaining a complete history of each case and of impressing upon the community the importance of greater care in isolation and sanitation in these diseases.

The milk and water supply of each case of typhoid fever has been obtained, showing an almost universal use of Acushnet water, and the milk supply has been so varied that suspicion has been directed against no special dealer.

No case of scarlet fever has been allowed to return to school until desquamation has entirely ceased. In cases where this process has been very rapid, four weeks are allowed to elapse before the children have permission to return to school.

While there has been a marked decrease in the number of cases of typhoid and scarlet fever reported to the Board, it is in diphtheria where the diminution has been most marked, being reduced by nearly one-half over the year previous. With this disease, children are not allowed to

return to school until the expiration of four weeks from the beginning of the illness.

About four hundred calls have been made by the Inspector, which is a reduction of about one hundred from the year 1895. This decrease is due to the decrease in the number of cases reported to the Board.

Feb. 3, 1896. At a meeting of the Mayor and Aldermen, Thomas W. Cook was appointed a member of the Board of Health.

Feb. 8, 1896. On recommendation of the Board of Examiners, a master plumber's license was granted to William E. Searell, and a journeyman plumber's license to Joseph Sevigny.

Feb. 13, 1896. At a meeting of the Mayor and City Council, the sum of seventeen thousand (\$17,000) dollars was placed to the credit of the Board.

Feb. 21, 1896. At a meeting of the Mayor and Aldermen, Dr. W. N. Swift was appointed a member of the Board of Health.

March 2, 1896. License granted to Henry T. Ashley to carry on the business of slaughtering cattle within the limits of the city.

March 11, 1896. Dr. D. C. Ashley reported a case of glanders in a horse belonging to A. K. P. Sawin. The necessary precautions were taken.

April 6, 1896. On recommendation of the Board of Examiners, a master plumber's license was given to Messrs. E. P. Hirst, J. O. Savage and Joseph P. Reilly, and a journeyman plumber's license to Messrs. Edward Reynolds and Charles Kennedy.

April 8, 1896. Voted, To dispense with the reading of the record.

April 21, 1896. Voted, That the proposals for collection and disposal of garbage be published in the daily papers every day until May 9, 1896.

April 23, 1896. Voted, That premises No. 40 Delano street, belonging to Industrial Cooperative Association, be abandoned, they being unfit for occupation as a dwelling place.

May 5, 1896. Dr. D. C. Ashley reported a case of glanders in a horse belonging to Gilbert Tremblay.

May 12, 1896. Voted, To award the contract for the collection and disposal of garbage to Edgar H. Gammons & Co.

May 15, 1896. Voted, To print the following in the daily papers: "The public are warned against the use of Preservaline as a preservative of milk or other food, as according to the report of the chemist of the State Board of Health, it consists of boracic acid."

Also, the Inspector of Milk had the following printed: "The addition of boracic acid to milk is considered an adulteration. Any sample of milk found to be adulterated with the above, or any other substance, will be prosecuted."

May 22, 1896. Voted, To have the following notice printed in the daily papers for one week:

"Examination for the diagnosis of diphtheria by means of cultures, and the examination of sputum for tubercle bacilli, will be made free except express charges, by the State Board of Health, room 141, State House, Boston, Mass.

"Culture tubes for the diphtheria test can be found at our office, 52 Pleasant street.

"For examination of sputum for tubercle bacilli, a small quantity, preferably not more than one-half oz., should be sent in a small wide-mouthed bottle suitably protected against breakage, by express or messenger, to room 141, State House, Boston, Mass."

May 22, 1896. Dr. D. C. Ashley reported two cases of supposed tuberculosis in cows belonging to Mrs. T. D. Elliott.



May 29, 1896. On recommendation of Board of Examiners, journeyman plumber's license was granted to the following: James H. Mahoney, William R. Collins, Samuel H. Clark, and Charles R. Hubbard.

June 2, 1896. Board organized as follows:

Nathaniel Hathaway, Chairman.

William N. Swift, Physician to Board and Quarantine Physician.

Thomas W. Cook.

William E. Macomber, Health Inspector.

Louis H. Richardson, Inspector of Plumbing.

Susie J. Small, Clerk.

The two last named hold the office under Civil Service rules.

June 8, 1896. Hearing before His Honor, Mayor Parker, and Committee on Investigation of Garbage Contract, in room 4, Library Building.

June 20, 1896. Voted, To pass the following regulation:

“No person shall be allowed to keep or maintain neat cattle within the city limits, unless by license issued by the Board of Health. Licenses to keep such cattle shall be issued before July 1, 1896, and hereafter in the month of May of each year, to expire on the 31st of May following; and licenses used subsequent to the month of May in any year, shall expire on the 31st of May following. Application for such licenses shall be made in writing upon blank forms which will be furnished by the Board of Health, and upon examination of premises by the Board of Health or its agent, the granting of such licenses shall be acted upon.

“Failure on the part of licensees to comply with all the regulations of the Board of Health now in force or hereafter made, shall constitute cause for the revocation of such licenses, and they shall be liable to the penalties pro-



vided by the Public Statutes of the Commonwealth. This regulation shall go into effect July 1, 1896."

Voted, To print the following regulation and law in the Evening Standard and Morning Mercury, three times :

*Extract from Public Statutes. Chap. 213.*

AN ACT relative to the licensing and regulating of Stables in cities.

Be it enacted, etc., as follows :

SECTION 1. No person shall hereafter erect, occupy or use, for a stable, any building in any city whose population exceeds fifty thousand, unless first licensed so to do by the Board of Health of said city, and in such case only to the extent so licensed.

SECTION 2. The foregoing provisions shall not be construed to prevent any such occupation and use which may be authorized by law at the time of the passage of this act, to the extent and by the person or persons so authorized; *provided, however*, that the Board of Health of any such city may make such regulations or orders respecting the drainage, ventilation, number of animals, and the storage and handling of manure, in any existing stables in their respective cities as in their judgment the public health requires.

SECTION 3. Whoever violates the provisions of this act or of any regulation or order made pursuant thereto, shall be punished by a fine of five dollars for each day such offence continues; and any court having equity jurisdiction may restrain any such erection, occupation or use contrary to the provisions of this act. [Approved April 4, 1895.]

Amendment of garbage contract by extending the limit from which collection is made on the north, to upper Belleville road, on the south to Butler street.

Dr. D. C. Ashley reported a suspected case of glanders in horse belonging to Charles Lawton.

June 22, 1896. William Deacon was re-elected third member of the Board of Examiners for the term of one year from the 1st of June, 1896.

On recommendation of Board of Examiners, a journeyman plumber's license was granted to Edward L. Curtis.

June 27, 1896. Dr. D. C. Ashley reported a suspected case of glanders in a horse belonging to a Mr. Sylvester, No. 150 North Second street.

June 29, 1896. Voted, To grant no further permits into Gifford street sewer, as in the opinion of the Board it would be unwise as the sewer is at present.

July 10, 1896. Communication to Alderman W. R. West, chairman of Public Property Committee, relative to sanitary condition of the Almshouse.

July 29, 1896. Voted, To allow F. W. Oesting to connect two houses with one drain, in consequence of a ledge he would have to encounter.

Aug. 1, 1896. On recommendation of Board of Examiners, voted to grant a master plumber's license to James Maher.

Aug. 18, 1896. Voted, That the keeping of swine be prohibited on the north side of Allen street, between Ward and Borden streets (in rear), occupied by Charles Tripp.

Aug. 20, 1896. Voted, That the keeping of swine be prohibited at No. 65 Washburn street (in rear), occupied by Patrick O'Leary.

Aug. 25, 1896. Voted, To print the following notice in the Standard:

"Notice to Dealers in Ice. It has been brought to the notice of the Board of Health that it has been the custom of certain drivers of ice-carts to wash their ice with water taken from the public drinking fountains for the use of animals. In the opinion of this Board it is dangerous to the public health, you are hereby warned against this practice."

Aug. 26, 1896. Voted, To allow the School Committee to maintain an earth closet at Primitive Methodist church, for the use of the overflow of Thompson street school.

Aug. 26, 1896. Voted, On recommendation of Board of Examiners, to grant a journeyman plumber's license to Charles F. McDonald.

Sept. 24, 1896. Voted, To renew the licenses of Clar-

ence Delano and Samuel Barlow, they having shown licenses from the Board of Health of the place where they formerly resided.

Sept. 28, 1896. Voted, To renew the license of Warren S. Maxfield, he having shown a license from Fairhaven Board of Health.

Sept. 29, 1896. Voted, To renew the license of John Bannon, he having shown a license from Brookline Board of Health.

Oct. 3, 1896. Voted, That upon investigation, to abandon premises No. 7, rear No. 7 and No. 9 Seneca street, said to be owned by James McNamara, they being unfit for occupation as a dwelling-house

Oct. 26, 1896. Dr. W. N. Swift sent in his resignation as City Physician and member of the Board of Health.

Nov. 5, 1896. Voted, To print in the daily papers, three times, the following notice :

“Notice to Physicians. Jars for sending sputum to be examined for tubercle bacilli are supplied by the State Board of Health. The jars can be found at the office of the Board of Health. Physicians are reminded that the examination is made by the State Board of Health free of charge except the express charges.”

Nov. 9, 1896. Voted, That permit be given to Edgar H. Gammons to establish and maintain a plant for the disposal of garbage, dead animals and night soil, according to the terms defined in contract of the Board of Health of May 12, 1896. The establishment for this purpose to be located on a lot of land a short distance from the Hathaway farm, north of Fall River railroad, west of Shawmut avenue, now owned by Edgar H. Gammons.

Nov. 9, 1896. Voted, On recommendation of Board of Examiners, to grant journeyman plumber's licenses to

the following: John T. Conway, Ernest Insley, Alex. M. Pease and Allen J. Searell.

Also, voted to renew the license of W. J. Wills, he having shown his license from Worcester Board of Health.

Nov. 12, 1896. At a meeting of the Mayor and Aldermen, Dr. E. E. Waite was appointed City Physician, to fill a vacancy and for the unexpired term to end in February, 1899, and until his successor has been appointed.

Nov. 19, 1896. Voted, To renew the license of Samuel Barlow, he having shown a license from Lowell Board of Health.

Dec. 10, 1896. A case of typhoid fever having been reported at No. 77 Dartmouth street, it was voted not to allow Joseph C. Austin, living at said premises, to sell milk as long as the case remained in the house.

Nov. 12, 1896. Voted, That water closet tanks must not be used in connection with the expansion tank for hot water heating, or in any other form than what it is intended.

Dec. 15, 1896. Voted, To allow J. C. Austin, No. 77 Dartmouth street, to continue the sale of milk, he having complied with the rules of the Board.

Dec. 19, 1896. Dr. D. C. Ashley reported two cases of suspected glanders.

*Extract from Board of Examiners.*

Nine examinations were held by the Board for the year 1896.

Thirteen journeyman plumbers and six master plumbers were recommended as having passed successfully their respective examinations.

Six failed to pass the master and journeyman plumbers' examination.

The sum of \$101 was received from renewals and new licenses in plumbing.

During the year 1896, nineteen (19) bacteriological tests were made. Of this number, eight (8) showed the presence of diphtheria bacilli.

Ten (10) bottles of antitoxine were used in cases of diphtheria with good results.

Following is the number of permits granted by the Board during the year 1896:

For cleaning vaults and cesspools, 38.

Stables, 57.

To re-inter,

To enter sewers, 501.

For keeping swine, 54.

Number of nuisances during the year 1896:

Filthy and overflowing vaults, 116.

Defective vaults and cesspools, 69.

Defective and clogged drains, 41.

Defective plumbing, 87.

Filthy water closets, 33.

Filthy ash barrels, 26.

Filthy barn cellars, 14.

Filthy premises, 25.

Filthy manure piles, 12.

Hens in cellars, 12.

Water in cellar, 2.

Filthy sand-catchers, 5.

Unlicensed pigs, 8.

Dead animals on street and beach, 12.

Emptying vaults without a license, 6.

Pigpen nuisances, 7.

Feeding cows on swill, 3.

Fish market nuisance, 2.

Location of privy vaults, 26.

Collecting swill without a license, 9.

Complaints without cause, 28.

Inspections made, 1,822.

Premises fumigated, 90.



Permits granted for cleaning vaults, 19.  
 Houses placarded for contagious diseases, 109.  
 Privy vaults ordered removed, 16.  
 Premises ordered vacated, 5.  
 Notices served, 105.

*Extract from the Report of the Inspector of Plumbing.*

Number of permits issued, 972.  
 For new buildings, 410.  
 For old buildings, 345.  
 Number of inspections, 765.  
 Final inspections, 860.  
 Whole number of inspections, 1,625.

REGISTRATION OF PLUMBERS.

Board of Examination—Thomas W. Cook, chairman ;  
 Edmund O'Keefe, William Deacon.

MASTER OR EMPLOYING.

John L. Coggeshall,	D. J. Mahoney,
C. W. Coggeshall,	T. E. Mahoney,
J. W. Clifton,	J. H. Mahoney,
Thos. F. Cuddy,	C. P. Maxfield,
M. V. B. Cahoon,	G. F. Maxfield,
E. L. Coombs,	J. H. Mayo,
C. L. Dunham,	Jas. Maher,
Wm. Deacon,	J. O'Neil,
Thomas B. Connelly,	E. F. Penney,
C. F. Delano,	O. Ricketson,
J. D. Elliott,	J. H. Ryan,
F. N. Gifford,	J. P. Reilly,
T. J. Gifford & Co.,	F. C. Smith,
E. O. Higgins,	J. H. Sherman,
G. E. Hatch,	J. M. Sullivan,
F. Hamel,	W. E. Searell,
J. G. Hellyer,	J. O. Savage,



E. P. Hirst,	R. H. Taber,
A. Knowles,	H. L. Weeks,
S. C. Lowe,	Wood, Brightman & Co.,
E. L. Landers,	A. R. Weeks.

## JOURNEYMEN.

J. J. Allen,	A. B. Kenyon,
W. H. Ardrey,	Jas. Kelley,
F. R. Brightman,	Chas. Kennedy,
John Bazinet,	Otis B. Luce,
O. P. Bourne,	L. Lanthier,
S. Barlow,	T. C. Lowe,
Chas. Castle,	Edw. E. Landers,
J. F. Collins,	M. E. McCarthy,
F. M. Cunningham,	E. F. Minier,
J. L. Crowley,	C. A. Maxfield,
J. C. Coholan,	J. H. Mahoney,
W. R. Collins,	J. F. Murphy,
S. R. Clark,	R. McAfee,
E. L. Curtis,	C. McDonald,
J. T. Conway,	Warren Maxfield,
C. F. Daley,	Alex. M. Pease,
J. E. Doyle,	A. R. Robbins,
D. J. Dempsey,	W. S. Raphael,
Archer B. Earle,	L. R. Russell,
C. J. Francis, Jr.,	C. A. Robinson,
E. H. Gregory,	E. Reynolds,
Alphonse Geroux,	J. O. Slocum, Jr.,
Herbert A. Howland,	J. P. Smith,
J. F. Haughey,	M. L. Sylvia,
W. D. Hamel,	Jos. Sevigny,
C. R. Hubbard,	Allen J. Searell,
Ernest Ilsley,	G. F. Tobey,
F. O. Jenney,	C. S. Wainer,
P. C. James,	J. B. Wilbur,
T. P. Knowles,	W. J. Wills.

## FINANCIAL REPORT, 1896.

Salaries,	\$3,456.50
Rent,	500.00
Garbage,	13,750.00
Incidentals,	1,102.89
Whole amount expended,	\$18,809.39
Amount of appropriation,	17,000.00
Deficit,	\$1,809.39

## EXPENDITURES.

Louis H. Richardson,	\$116.67	
Susie J. Small,	45.84	
Louis H. Richardson,	5.00	
Edgar H. Gammons,	1,000.00	
Dr. Chas. A. Pratt,	41.67	
Dr. Anna W. Croacher,	9.50	
Bates & Kirby,	41.67	
N. B. Gas & Edison Light Co.,	.75	
Louis H. Richardson,	22.35	\$1,283.45
E. Anthony & Sons,	1.00	
Bates & Kirby,	41.67	
Manuel Brown,	20.00	
Dr. A. W. Croacher,	3.00	
William Deacon,	4.50	
Edgar H. Gammons,	1,000.00	
N. B. Gas & Edison Light Co.,	.75	
Dr. C. A. Pratt,	41.67	
Dr. C. A. Pratt,	9.00	
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
So. Mass. Telephone Co.,	.30	
Wm. F. Salter,	.75	
Robert W. Taber,	.40	
So. Mass. Telephone Co.,	17.50	1,308.05
Bates & Kirby,	41.67	
Edgar H. Gammons,	1,000.00	
Nathl. Hathaway,	3.00	
Hatch & Co.,	.60	
N. B. Gas & Edison Light Co.,	.75	
Dr. C. A. Pratt,	41.67	
Dr. C. A. Pratt,	12.00	

S. F. Perry & Son,	2.00	
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	1,269.20
E. Anthony & Sons,	9.90	
E. Anthony & Sons,	4.40	
Bates & Kirby,	41.67	
Dr. A. W. Croacher,	10.00	
William Deacon,	10.92	
Evening Journal,	1.67	
Evening Journal,	2.75	
E. H. Gammons,	1,000.00	
Hatch & Co.,	.25	
Mercury Publishing Co.,	11.95	
N. B. Gas & Edison Light Co.,	.75	
Dr. Chas. A. Pratt,	41.67	
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Mortimer Searles,	2.00	1,305.44
E. Anthony & Sons,	9.09	
Bates & Kirby,	41.66	
William Deacon,	9.00	
Dr. A. W. Croacher,	8.50	
Evening Journal, (3 bills,)	8.50	
E. H. Gammons,	1,000.00	
Kirby & Hicks,	5.50	
Mercury Publishing Co.,	8.75	
W. E. Macomber,	50.00	
N. B. Gas & Edison Light Co.,	.75	
N. B. Towboat Co.—Zulmira, Gen. Scott, John E. Shatford,	15.00	
Dr. C. A. Pratt,	41.67	
Dr. C. A. Pratt,	3.00	
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Susie J. Small,	8.00	
C. R. Sherman & Son,	.75	
Robert W. Taber,	.30	1,377.98
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Edgar H. Gammons,	1,250.00	

Dr. C. A. Pratt,	41.67	
Bates & Kirby,	41.66	
Dr. A. W. Croacher,	6.50	
Ballard & Kirschbaum,	1.00	
N. B. Gas & Edison Light Co.,	.75	
Mercury Publishing Co.,	6.00	
Mercury Publishing Co.,	25.76	
Emma D. Caswell,	16.50	
Standard,	9.30	
T. H. Soule, agent,	10.00	
W. Collins & Co.,	3.00	
Hatch & Co.,	.25	
Hatch & Co.,	1.45	
Dr. W. N. Swift,	15.00	1,596.35
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Edgar H. Gammons,	1,250.00	
Dr. Chas. A. Pratt,	41.67	
Bates & Kirby,	41.66	
I. T. Ashley,	1.50	
F. S. Blanchard,	1.50	
C. H. & H. A. Lawton,	31.10	
N. B. Towboat Co.—W. F. Green, Carolina, Long-		
wood,	15.00	
R. W. Taber,	1.25	
N. B. Edison Light Co.,	.75	1,551.94
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Edgar H. Gammons,	1,250.00	
Dr. Chas. A. Pratt,	41.67	
Bates & Kirby,	41.66	
Dr. A. W. Croacher,	17.00	
S. W. Peckham,	24.00	
William Deacon,	53.00	
E. Anthony & Sons,	1.12	
N. B. Electric Light Co.,	.75	
Evening Journal,	1.67	
Robert W. Taber,	2.90	
Mercury Publishing Co.,	2.67	
Mercury Publishing Co.,	10.50	
W. A. Greenough,	2.50	
"Volunteer,"	5.00	

Kirby & Hicks,	1.50	
W. H. Collins & Co.,	3.00	
W. H. Collins & Co.,	3.00	
Dr. C. W. Milliken,	26.00	
So. Mass. Telephone Co.,	17.50	1,672.95
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Dr. Chas. A. Pratt,	41.67	
Dr. A. W. Croacher,	61.00	
Edgar H. Gammons,	1,250.00	
N. B. Towboat Co.—D. A. Small, C. W. Hogdon, Adelia Chase, President, Conwell, Monta, Zulmira, Ethel & Addie,	40.00	
N. B. Electric Light Co.,	.75	
Hatch & Co.,	1.00	
Mercury Publishing Co.,	4.25	
Bates & Kirby,	41.67	
Manuel Brown,	28.00	
Samuel Peckham,	4.00	
W. N. Swift, M. D.,	24.00	1,663.85
Louis H. Richardson,	116.69	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
Dr. C. A. Pratt,	41.67	
Dr. A. W. Croacher,	25.00	
Edgar H. Gammons,	1,250.00	
N. B. Towboat Co.,	10.00	
Bates & Kirby,	41.67	
F. M. Douglass,	3.95	
S. W. Peckham,	4.00	
E. Anthony & Sons,	1.80	
Mercury Publishing Co.,	6.00	
Mercury Publishing Co.,	1.34	
W. H. Collins,	2.25	
W. H. Collins,	1.25	
Dr. W. N. Swift,	3.00	
N. B. Gas & Edison Light Co.,	.75	1,560.19
Louis H. Richardson,	116.67	
Louis H. Richardson,	5.00	
Susie J. Small,	45.84	
William E. Macomber,	50.00	
Edgar H. Gammons,	1,250.00	
Dr. A. W. Croacher,	10.50	

Dr. Chas. A. Pratt,	41.67	
Dr. Chas. A. Pratt,	3.00	
William Deacon,	13.50	
William Deacon,	2.77	
Hatch & Co.,	2.25	
Mercury Publishing Co.,	2.08	
Mercury Publishing Co.,	1.50	
N. B. Gas & Edison Light Co.,	.75	
Robert W. Taber,	.25	
Bates & Kirby,	41.67	
E. Anthony & Sons,	3.69	1,591.14
Louis H. Richardson,	116.63	
Louis H. Richardson,	5.00	
Susie J. Small,	45.76	
Edgar H. Gammons,	1,250.00	
Bates & Kirby,	41.67	
Dr. C. A. Pratt,	41.63	
Dr. A. W. Croacher,	4.00	
Hatch & Co.,	2.00	
Electric Light Co.,	.75	
C. R. Sherman & Son,	2.00	
F. R. Douglass,	8.95	
C. H. & H. A. Lawton,	63.48	
Mercury Publishing Co.,	6.20	
Mortimer Searles,	2.20	
S. F. Perry & Son,	2.00	
E. Anthony & Sons,	2.50	
E. E. Waite, M. D.,	12.00	
William E. Macomber,	1,006.50	
Nathaniel Hathaway,	15.58	2,628.85
		<hr/> \$18,809.39



## MORTUARY REPORT FOR THE YEAR 1896.

CAUSE OF DEATH.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Aortic Aneurism, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Apoplexy, . . . . .	2	7	5	4	5	5	3	2	2	3	1	2	41
Anæmia, Pernicious, . . . . .	1	.	.	.	.	.	1	.	.	.	.	1	3
Alcoholism, . . . . .	1	.	.	.	.	.	.	.	.	.	.	.	1
Accident, . . . . .	1	1	.	.	.	.	.	.	.	.	.	.	2
Atelectasis, . . . . .	.	1	.	1	.	.	.	.	1	.	.	1	4
Appendicitis, . . . . .	.	1	.	.	.	.	.	.	.	.	.	.	1
Ascites, . . . . .	.	.	1	.	.	.	.	.	.	.	.	.	1
Asphyxia, . . . . .	.	.	.	1	.	.	.	.	.	.	.	.	1
Abscess, Tubercular, . . . . .	.	.	.	.	.	1	.	.	.	.	.	.	1
Accident, broken neck, . . . . .	.	.	.	.	.	.	1	.	.	1	.	.	2
Abscess, . . . . .	.	.	.	.	.	.	1	.	.	.	.	.	1
Albuminuria, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Bronchitis, . . . . .	2	5	2	2	10	2	4	.	2	1	1	2	33
Bronchitis, cap., . . . . .	1	3	2	.	1	.	.	1	.	1	.	.	9
Bladder, disease of, . . . . .	1	.	.	.	.	.	1	2	1	.	.	.	5
Brain disease, . . . . .	1	2	1	2	.	.	.	.	1	.	.	.	7
Brain, softening of, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Convulsions, . . . . .	2	4	2	7	4	1	1	5	2	3	1	4	36
Cancer, . . . . .	.	1	1	.	2	2	1	4	.	1	2	.	14
Cancer of uterus, . . . . .	1	1	.	.	.	.	.	.	1	.	1	.	5
Cancer of lip, . . . . .	.	1	.	.	.	1	.	.	.	.	.	.	2
Cancer of liver, . . . . .	.	.	.	2	.	.	1	1	1	.	.	.	5
Cancer of stomach, . . . . .	.	.	.	1	.	1	2	1	1	2	.	1	9
Cancer of breast, . . . . .	.	.	1	.	.	.	.	1	.	.	.	.	2
Cancer of intestines, . . . . .	.	.	.	.	.	.	1	.	.	.	.	.	1
Cancer of liver and stomach, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Cholera infantum, . . . . .	.	1	.	.	.	2	54	52	13	7	1	.	130
Craniotomy, result of, . . . . .	.	.	.	.	1	.	.	.	.	.	.	.	1
Cerebral tumor, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Debility, . . . . .	.	1	1	2	2	.	.	1	3	2	.	.	12
Debility, infantile, . . . . .	10	9	6	12	10	5	14	20	13	13	7	10	129
Diphtheria, . . . . .	1	2	2	2	.	2	2	2	3	3	10	4	33
Diarrhœa, . . . . .	.	1	.	.	3	.	3	4	2	1	.	.	14
Drowning, . . . . .	.	.	.	.	1	.	2	2	.	.	.	.	5
Dysentery, . . . . .	.	.	.	.	.	.	.	1	1	1	.	.	3
Dementia, . . . . .	.	.	.	.	.	.	.	1	.	.	.	.	1
Diabetes, . . . . .	.	.	.	.	.	.	.	.	.	.	.	.	1
Epilepsy, . . . . .	1	.	1	1	.	.	.	.	1	.	.	.	4
Enteritis, . . . . .	.	.	.	.	2	.	1	3	1	2	1	3	13
Enteritis, gastro, . . . . .	.	.	.	1	.	.	5	7	6	2	.	.	21
Entero colitis, . . . . .	.	.	1	.	.	.	2	8	4	2	1	1	19
Eclampsia, . . . . .	.	.	1	.	.	.	1	1	.	.	.	.	3
Embolism, . . . . .	.	.	.	.	1	.	.	.	.	.	.	.	1
Emphyema, . . . . .	.	.	.	.	.	.	1	.	.	.	.	.	1
Endocarditis, . . . . .	.	.	.	.	.	.	.	.	1	.	.	.	1

MORTUARY REPORT FOR THE YEAR 1896.—*Continued.*

CAUSE OF DEATH.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Embolism, cer., . . . . .	.	.	.	.	.	.	.	.	1	.	.	.	1
Fever, typhoid, . . . . .	.	1	1	1	2	1	.	3	1	3	1	.	14
Fever, scarlet, . . . . .	.	.	.	2	.	.	1	.	.	.	.	.	3
Fracture of thigh, . . . . .	.	.	1	.	.	.	.	.	.	.	.	.	1
Fracture of skull, . . . . .	.	.	.	.	.	1	.	.	.	.	.	.	1
Fracture of hip, . . . . .	.	.	.	.	.	.	.	.	.	1	.	1	2
Gunshot wound of brain (suicide), . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Gastritis, . . . . .	1	.	.	.	.	.	.	.	.	.	.	.	1
Gastric ulcer, . . . . .	.	2	.	.	.	.	.	.	.	.	.	.	2
Gunshot wound, hemorrhage, . . . . .	.	.	.	.	.	.	.	1	.	.	.	.	1
Glottis, œdema of, . . . . .	.	.	.	.	.	.	.	.	1	.	.	.	1
Heart disease, . . . . .	6	10	15	10	13	10	4	16	3	3	4	5	99
Hernia, strangulated, . . . . .	.	.	.	.	.	.	.	1	.	.	.	.	1
Hemorrhage, . . . . .	2	.	.	.	.	1	1	1	.	.	.	.	5
Hemorrhage, uterine, . . . . .	.	1	.	.	.	.	.	.	.	.	.	.	1
Hemorrhage into pericardium, . . . . .	.	1	.	.	.	.	.	.	.	.	.	.	1
Hemorrhage, intracranial, . . . . .	.	.	.	.	.	1	.	.	.	.	.	.	1
Hemorrhage, post partem, . . . . .	.	.	1	.	.	1	.	.	.	.	.	.	2
Hydrocephalus, . . . . .	.	.	1	.	.	.	.	1	.	.	.	.	2
Heat exhaustion, . . . . .	.	.	.	.	.	.	.	1	.	.	.	.	1
Intestinal obstruction, . . . . .	.	1	1	.	.	2	.	.	1	2	.	.	7
Internal injuries, . . . . .	.	.	.	.	.	.	.	.	2	.	.	.	2
Kidney disease, . . . . .	6	8	4	1	4	5	3	.	1	4	4	3	43
Lungs, œdema of, . . . . .	.	1	1	.	.	.	.	.	.	.	.	.	2
Laryngitis, . . . . .	.	1	1	.	.	.	.	1	.	.	.	.	3
Laryngitis stridulous, . . . . .	.	.	1	.	.	.	.	.	.	.	.	.	1
Liver, cirrhosis of, . . . . .	.	.	1	.	1	2	.	.	.	.	1	.	5
Liver, atrophy of, . . . . .	.	.	.	1	.	.	.	.	.	.	.	.	1
Leucocythæmia, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Liver, yellow atrophy, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Laryngitis, tub., . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Liver, abscess of, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Meningitis, . . . . .	.	4	2	3	5	1	2	1	2	1	3	2	26
Meningitis, tub., . . . . .	1	1	.	1	3	1	1	1	1	.	.	.	10
Meningitis, cer., . . . . .	1	.	.	.	.	1	.	.	1	.	.	.	3
Meningitis, cerebro spinal, . . . . .	.	.	1	.	.	.	.	.	.	.	1	.	2
Meningitis, spinal, . . . . .	.	.	1	.	.	.	1	.	.	1	.	.	3
Malformation, . . . . .	.	1	.	.	.	.	.	.	.	.	.	.	1
Malnutrition, . . . . .	.	.	1	1	1	1	2	2	.	.	.	.	8
Measles, . . . . .	.	.	.	.	1	.	.	.	.	.	.	.	1
Mumps, . . . . .	.	.	.	.	.	.	.	1	.	.	.	.	1
Old age, . . . . .	.	2	2	1	3	2	2	.	2	5	3	5	27
Osteo myelitis, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Phthisis pul., . . . . .	13	9	4	11	17	11	5	13	4	4	8	10	109
Premature birth, . . . . .	2	3	2	1	2	.	4	6	5	.	1	6	32
Pneumonia, . . . . .	9	11	10	4	15	8	3	.	2	4	2	8	76

MORTUARY REPORT FOR THE YEAR 1896.—*Continued.*

CAUSE OF DEATH.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Peritonitis, . . . . .	.	.	.	2	2	1	1	1	1	.	1	1	10
Peritonitis, metro, . . . . .	.	.	1	2	.	.	.	.	.	.	.	.	3
Paralysis, . . . . .	.	1	3	5	2	.	.	1	2	.	.	.	14
Pyæmia, . . . . .	.	1	.	.	.	.	.	1	.	.	.	.	2
Pleurisy, . . . . .	.	1	.	1	.	.	.	.	.	1	.	.	3
Paresis, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Pistol bullet wound, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Prostate, hypertrophy of, . . . . .	.	.	.	.	.	.	.	.	.	1	.	.	1
Poisoning by corrosive sublimate, . . . . .	.	.	.	.	.	.	.	.	.	.	1	.	1
Rheumatism, . . . . .	1	.	.	.	4	.	.	.	.	.	.	1	6
Septicæmia, . . . . .	1	2	.	1	.	.	.	.	2	1	.	.	7
Septicæmia, puerperal, . . . . .	1	2	.	1	.	.	.	.	.	.	.	.	4
Syphilis, . . . . .	.	1	.	.	.	.	.	.	.	.	.	1	2
Syphilis, congenital, . . . . .	.	.	.	.	.	.	1	.	.	.	1	.	2
Suffocation, . . . . .	.	1	1	.	1	.	.	.	.	.	2	.	5
Suicide, cut throat, . . . . .	.	1	.	.	.	.	.	.	.	.	.	.	1
Suicide, hanging, . . . . .	.	.	.	.	1	.	.	.	.	.	.	.	1
Shock, . . . . .	.	.	.	.	.	1	.	.	.	.	.	.	1
Stomach, disease of, . . . . .	.	.	.	.	.	1	.	.	.	.	.	.	1
Tuberculosis, . . . . .	1	.	2	1	.	1	.	1	1	.	.	1	8
Unknown, . . . . .	1	2	2	.	.	.	5	1	.	2	.	1	14
Ulcer of stomach, . . . . .	.	.	.	.	.	.	.	2	.	.	.	.	2
Whooping cough, . . . . .	.	.	.	.	6	1	.	3	.	.	.	.	10

## CONTAGIOUS AND INFECTIOUS DISEASES.

	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Scarlet fever, . . . . .	10	6	5	7	19	5	5	4	2	9	3	4	79
Diphtheria, . . . . .	5	6	7	2	3	2	1	5	2	5	16	10	64
Membranous croup, . . . . .	.	.	1	.	1	.	1	1	.	2	.	.	6
Measles, . . . . .	.	1	.	1	1	3	1	5	.	.	.	.	12
Whooping cough, . . . . .	.	.	2	5	7	.	2	1	2	.	.	.	19
Typhoid fever, . . . . .	3	3	2	3	4	.	.	8	12	18	6	10	73

		JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL.
Whole number of deaths,		71	111	87	89	125	76	138	178	93	85	63	76	1192
	{ Males,	40	54	38	48	71	37	68	95	54	41	30	40	616
	{ Females,	31	57	49	41	54	39	70	83	39	44	33	36	576
Under 1 year, .	{ Males,	15	17	7	15	25	8	43	57	27	15	8	16	253
	{ Females,	4	13	11	12	12	7	49	48	19	17	9	12	213
1-2, . . . . .	{ Males,	1	5	6	3	5	1	2	6	4	2	1	1	36
	{ Females,	3	1	2	2	4	4	3	3	2	2	2	2	28
2-3, . . . . .	{ Males,	1	1	1	2	2	2	2	1	2	1	1	1	13
	{ Females,	1	1	1	1	3	1	1	1	1	1	1	1	10
3-4, . . . . .	{ Males,	1	1	1	1	1	1	3	1	1	2	2	2	12
	{ Females,	1	3	2	2	1	1	1	1	2	2	2	2	10
4-5, . . . . .	{ Males,	1	1	1	2	1	1	1	1	1	1	1	1	3
	{ Females,	1	1	1	1	1	1	1	1	1	1	1	1	6
5-10, . . . . .	{ Males,	1	2	2	1	1	1	1	1	1	2	2	2	6
	{ Females,	2	1	1	1	1	1	1	1	2	4	2	2	15
10-15, . . . . .	{ Males,	1	1	1	1	2	1	1	1	1	1	1	1	7
	{ Females,	1	1	1	1	1	1	3	1	1	1	1	1	7
15-20, . . . . .	{ Males,	2	1	2	4	3	1	1	1	2	1	1	1	11
	{ Females,	2	1	2	4	3	1	1	1	2	1	1	1	18
20-30, . . . . .	{ Males,	4	3	2	5	5	3	3	8	3	4	3	2	45
	{ Females,	5	5	2	1	5	6	5	4	3	2	1	1	39
30-40, . . . . .	{ Males,	4	2	2	4	6	4	5	3	2	3	3	3	41
	{ Females,	2	6	2	1	5	2	2	2	1	3	3	3	29
40-50, . . . . .	{ Males,	3	4	1	4	1	1	1	4	1	4	2	3	29
	{ Females,	3	3	7	4	4	1	1	4	1	2	1	2	32
50-60, . . . . .	{ Males,	5	6	3	1	4	6	3	8	3	3	3	2	47
	{ Females,	1	4	5	2	4	5	3	2	3	2	2	4	37
60-70, . . . . .	{ Males,	1	5	4	6	7	4	2	4	2	1	4	2	42
	{ Females,	4	2	3	7	3	4	3	10	5	6	4	2	53
70-80, . . . . .	{ Males,	2	5	2	5	7	4	1	3	6	3	3	3	43
	{ Females,	1	8	8	5	3	5	1	2	3	3	4	4	42
Over 80, . . . . .	{ Males,	1	4	4	1	4	3	3	2	3	3	3	3	28
	{ Females,	4	9	4	1	5	3	1	2	1	4	2	1	37
Stillborn, . . . .	{ Males,	4	9	3	4	10	4	2	12	7	1	5	5	66
	{ Females,	1	2	5	3	2	1	2	5	5	3	3	1	33

No. of vaccinations for the year 1896, 247.

No. of revaccinations, 68.

Whole No. of vaccinations, 315.

Respectfully submitted,

NATH. HATHAWAY, *Chairman,*

WILLIAM N. SWIFT,

THOMAS W. COOK,

Board of Health.

## Report of New Bedford Quarantine for the year 1896.

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Boarded nineteen vessels arriving from foreign ports.  
No vessels were detained in quarantine, as they brought  
no cases of contagious diseases.

W. N. SWIFT, *Quarantine Officer*,  
Per E. E. Waite.

IN BOARD OF ALDERMEN,

March 25, 1897.

Received, ordered printed in the City Documents, and  
sent down for concurrence.

D. B. LEONARD,

City Clerk,

IN COMMON COUNCIL,

3 mo. 25th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.













1897—CITY DOCUMENT No. 8.

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THE  
AUDITOR'S ANNUAL REPORT

OF THE  
RECEIPTS AND EXPENDITURES

OF THE  
City of New Bedford,  
  
FOR THE YEAR 1896.

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NEW BEDFORD:  
E. ANTHONY & SONS, Incorp., CITY PRINTERS.  
1897.





CITY OF NEW BEDFORD,  
AUDITOR'S OFFICE,  
March 31, 1897.

*To the Honorable the City Council of New Bedford.*

GENTLEMEN:—Herewith I have the honor to submit the Annual Report of all the Receipts and Expenditures of the city for the financial year ending on the first Monday in January, 1897, together with a statement of the city debt, a schedule of the real and personal property belonging to the city and the estimated value thereof, and such other statements as I have deemed of interest.

Yours respectfully,

GEORGE W. PARKER,  
City Auditor.

# AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ., CITY TREASURER,

IN ACCOUNT WITH THE CITY OF NEW BEDFORD.

DR.

1896.		
January 6. To balance to cash,		\$19,780.59
Appropriations, general, taxes 1896,	\$743,703.90	
"          "          1895,	11,044.63	
"          "          1894,	8,841.87	
"          "          1893,	187.36	
"          "          1892,	102.28	
"          "          1891,	23.63	
"          "          1890,	38.70	
"          special,      1894,	800,000.00	
Cemeteries,	7,032.19	
"          sale of lots,	5,050.00	
Commonwealth of Mass., chap. 62,	175.00	
"          "          "      279,	1,474.40	
"          "          "      301,	9,167.00	
Engineering Department,	15.90	
Fire Department,	21.20	
Free Public Library, dog fund,	1,239.42	
Free Public Library, trustees—		
James B. Congdon fund,	30.00	
George O. Crocker fund,	400.00	
Oliver Crocker fund,	60.00	
George Howland, Jr. fund,	96.00	
Sylvia Ann Howland fund,	3,000.00	
Charles W. Morgan fund,	60.00	
Charles L. Wood fund,	80.00	
Incidentals,	228.25	
New Bedford School Committee—		
Howland fund,	3,034.81	
Jona. Bourne prize fund,	60.00	

## AUDITOR'S REPORT.

5

New Bedford Water Works,	102,820.37	
“ “ further water supply,	71,880.49	
Park Commission,	83.17	
Public Debt,	57,000.00	
Public Schools, incidentals,	.85	
“ dog fund,	1,239.41	
Real Estate, tax account,	893.06	
Department of Wharves,	1,553.95	
Temporary loan,	1,046,405.00	
Unappropriated funds,	140,995.63	
	<hr/>	\$3,018,038.47
		<hr/>
		\$3,037,819.06
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# AUDITOR'S REPORT.

JAMES H. HATHAWAY, ESQ., CITY TREASURER,  
IN ACCOUNT WITH THE CITY OF NEW BEDFORD.

CR.

Armories and military property,	\$3,889.19
Board of Assessors,	5,933.16
Board of Health,	18,809.39
Cemeteries,	24,741.52
"    sale of lots,	4,798.56
Commonwealth of Mass., chap. 62,	490.00
"        "        "        279,	2,612.25
"        "        "        301,	9,578.10
"        "        "        447,	4,806.36
Court judgments,	8,653.75
Election funds,	4,121.54
Engineering Department,	9,759.66
"        "        grade crossings,	2,067.20
Fire Department,	72,799.44
"        underground wires,	2,236.10
Free Public Library,	8,467.82
"        catalogues,	1,951.44
"        dog fund,	1,354.07
Free Public Library, trustees—	
James B. Congdon fund,	101.63
George O. Crocker fund,	458.98
Oliver Crocker fund,	60.44
George Howland, Jr. fund,	158.90
Sylvia Ann Howland fund,	2,900.18
Charles W. Morgan fund,	141.68
Charles L. Wood fund,	94.06
Highways and streets,	139,882.94
Construction city stable, shed and fence,	1,325.35
Dredging docks,	60.16
Land damages, widening Brock avenue,	271.60
"        "        Fourth street,	1,157.84
"        "        Purchase street,	36,552.43
"        "        Union street,	20,045.14

## AUDITOR'S REPORT.

7

Incidentals,	32,385.03
Pingree plan for benefit of poor,	701.65
Purchase of Leonard papers,	3,000.00
Revision of ordinances,	500.00
Kempton street school-house and lot,	300.00
License Commission,	568.23
Lighting the streets,	46,569.47
Coggeshall street bridge, maintenance,	48.72
"    "    repairs,	4,454.65
N. B. and Fairhaven bridge,	2,621.97
N. B. School Committee, Howland fund,	2,620.16
"    "    Jona. Bourne prize fund	60.00
N. B. Water Works,	123,870.69
"    further water supply,	636,367.09
Park Commission,	10,054.26
Public debt,	179,572.53
Platting system,	4,865.61
Police Department,	101,807.10
Poor Department,	40,126.00
Printing, binding and stationery,	5,142.68
Public schools, incidentals,	44,424.34
"    teachers,	115,706.04
"    repairs of buildings,	7,942.10
"    dog fund,	2,674.71
"    Clark street, furniture,	1,852.32
"    Merrimac street, repairs,	4,725.00
"    Middle street, new boiler,	1,200.00
Real estate tax account,	778.98
Purchase of Rotch's wharf,	22,000.00
Purchase of Taber's wharf,	30,000.00
Department of Wharves,	808.22
City property,	20,394.88
School-house lot, Dartmouth st. & Dunbar's lane,	4,900.00
School-house, Clark street,	24,230.37
School-house, Dartmouth st. and Dunbar's lane,	17,716.29
School-house, Phillips ave. and Bowditch street,	17,584.92
Receiving tomb, Rural cemetery,	4,464.86
Salaries,	23,582.94
Sewers, general account,	15,832.02
"    Acushnet avenue,	32.10
"    Acushnet avenue, No. 20,	244.91
"    Arnold street, No. 3,	248.34
"    Belleville avenue, No. 8,	111.20
"    Borden street, No. 3,	233.18
"    Bourne street, No. 1,	281.33



Sewers, Bullard street, No. 2,	670.80
“ Bullard street, No. 3,	1,526.41
“ Butler street,	473.78
“ Chancery street, No. 3,	172.76
“ Chancery street, No. 4,	612.57
“ Cherry and Sixth streets,	1,034.76
“ Chestnut street, No. 3,	424.69
“ Coggeshall street, No. 4,	177.20
“ Cottage and Grove streets,	842.62
“ Davis street, No. 3,	1,698.10
“ Dean street,	1,907.70
“ Fourth street, No. 4,	145.29
“ Front street, No. 11,	596.77
“ Front street, No. 12,	819.42
“ Hall street, No. 2,	220.51
“ Harrison street,	364.75
“ Howland street, No. 3,	12,904.72
“ Kempton street,	1,191.07
“ Locust street, No. 3,	278.01
“ Merrimac street, No. 2,	420.80
“ Mill street, No. 7,	2,569.55
“ Nye street, No. 2,	1,275.24
“ Orchard street, No. 5,	551.84
“ Rotch street,	194.07
“ Scott street,	10.50
“ Shawmut avenue, No. 4,	170.58
“ Union and Palmer streets,	335.40
“ Vine street,	4.00
“ Water street, No. 11,	377.26
“ Weaver street,	833.91
Sinking funds,	74,240.00
Temporary loan,	586,300.00
Unappropriated funds,	208.28
	<hr/> \$2,641,439.13
City Treasurer, balance of cash,	396,379.93
	<hr/> \$3,037,819.06

# EXPENDITURES IN DETAIL.

## APPROPRIATIONS, GENERAL, 1896.

DR.

Armories and military property,	\$2,500.00
Board of Assessors,	5,000.00
Board of Health,	17,000.00
Cemeteries,	12,500.00
Commonwealth of Mass., chap. 279,	1,400.00
“ “ “ 447,	3,000.00
Engineering Department,	8,000.00
Fire Department,	60,000.00
Free Public Library,	8,250.00
Free Public Library, catalogues,	1,600.00
Highways and streets,	90,900.00
Incidentals,	30,000.00
License Commission,	675.00
Lighting the streets,	45,000.00
Coggeshall street bridge, maintenance,	500.00
N. B. and Fairhaven bridge,	5,000.00
N. B. Water Works,	12,000.00
Park Commission,	10,000.00
Public debt,	87,021.00
Police Department,	94,000.00
Poor Department,	35,000.00
Printing, binding and stationery	5,000.00
Public schools, incidentals,	40,000.00
“ teachers,	92,899.00
“ repairs of buildings,	6,000.00
City property,	5,000.00
Salaries,	23,315.00
Sewers, general account,	15,000.00
Sinking funds,	74,240.00
	<hr/>
	\$790,800.00

## CR.

By cash receipts, as per Treasurer's report,	\$743,703.90	
January 4, 1897. Balance,	47,096.10	\$790,800.00

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## DR.

January 4, 1897. To balance,	\$47,096.10
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## APPROPRIATIONS, GENERAL, 1895.

January 6, 1896. To balance,	\$35,671.63
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## CR.

By cash receipts, as per Treasurer's report,	\$11,044.63	
January 4, 1897. Balance,	24,627.00	\$35,671.63

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## DR.

January 4, 1897. To balance,	\$24,627.00
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## APPROPRIATIONS, GENERAL, 1894.

January 6, 1896. To balance,	\$30,528.72
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## CR.

By cash receipts, as per Treasurer's report,	\$8,841.87	
January 4, 1897. Balance,	21,686.85	\$30,528.72

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## DR.

January 4, 1897. To balance,	\$21,686.85
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## APPROPRIATIONS, GENERAL, 1893.

January 6, 1896.	To balance,		<u>\$15,048.53</u>
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## CR.

By cash receipts, as per Treasurer's report,	\$187.36		
January 4, 1897. Balance,	14,861.17	\$15,048.53	<u></u>

## DR.

January 4, 1897.	To balance,		<u>\$14,861.17</u>
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## APPROPRIATIONS, GENERAL, 1892.

January 6, 1896.	To balance,		<u>\$8,244.56</u>
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## CR.

By cash receipts, as per Treasurer's report,	\$102.28		
January 4, 1897. Balance,	8,142.28	\$8,244.56	<u></u>

## DR.

January 4, 1897.	To balance,		<u>\$8,142.28</u>
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## APPROPRIATIONS, GENERAL, 1891.

January 6, 1896.	To balance,		<u>\$5,458.97</u>
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## CR.

By cash receipts, as per Treasurer's report,	\$23.63		
Transfer,	3,353.01		
January 4, 1897.	Balance,	<u>2,082.33</u>	<u>\$5,458.97</u>

## DR.

January 4, 1897.	To balance,		<u>\$2,082.33</u>
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## APPROPRIATIONS, GENERAL, 1890.

January 6, 1896.	To balance,		<u>\$7,853.20</u>
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## CR.

By cash receipts, as per Treasurer's report,	\$38.70		
Transfer to balance,	7,814.50		
		<u>7,853.20</u>	<u>\$7,853.20</u>

## APPROPRIATIONS, SPECIAL, 1896.

Cemeteries, .	\$2,000.00
Fire Department,	4,350.00
“ “ underground wires,	2,000.00
Free Public Library, reading-room fund,	2,500.00
Construction of city stable, shed and fence,	1,200.00
Land damages, Brock avenue.	271.60
“ Purchase street,	39,576.00
Incidentals,	7,271.75
Pingree plan for benefit of the poor,	1,500.00
Purchase of the Leonard papers,	3,000.00
Revision of ordinances,	500.00
Coggeshall street, bridge repairs,	1,225.00
Public schools, incidentals,	5,000.00
“ repairs of buildings,	24,000.00
“ Clark street, furniture,	2,100.00
“ Merrimac street, repairs,	4,725.00
“ Middle street, boiler,	1,200.00
Purchase of Rotch's wharf,	22,000.00
Purchase of Taber's wharf,	30,000.00
City property,	14,062.00
School-house lot, cor. Dartmouth street and Dunbar's lane,	4,950.00
School-house, cor. Dartmouth st. and Dunbar's lane.	37,293.00
Receiving tomb, Rural cemetery,	5,188.06
Sewer, Acushnet avenue, No. 20,	500.00
“ Arnold street, No. 3,	400.00
“ Belleville avenue, No. 8,	400.00
“ Borden street, No. 3,	300.00
“ Bullard street, No. 2,	1,000.00
“ Chancery street, No. 3,	200.00
“ Cherry and Sixth streets,	1,000.00
“ Chestnut street, No. 3,	1,000.00
“ Davis street, No. 3,	1,500.00
“ Dean street,	3,800.00
“ Fourth street, No. 4,	200.00
“ Front street, No. 11,	600.00
“ Front street, No. 12,	1,200.00
“ Hall street, No. 2,	350.00
“ Harrison street,	300.00
“ Howland street, No. 3,	16,000.00
“ Kempton street,	2,000.00
“ Locust street, No. 3,	400.00



Sewer, Merrimac street, No. 2,	600.00	
“ Nye street, No. 2,	1,600.00	
“ Orchard street, No. 5,	1,500.00	
“ Rotch street,	300.00	
“ Shawmut avenue, No. 4,	250.00	
“ Union and Palmer streets,	500.00	
“ Weaver street,	1,800.00	\$253,612.41

### APPROPRIATIONS, SPECIAL, 1895.

January 6, 1896. To balance,	\$222,017.45
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### APPROPRIATIONS, SPECIAL, 1894.

January 6, 1896. To balance,	\$1,000,000.00
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CR.

By cash receipts, as per Treasurer's report,	\$800,000.00	
January 4, 1897. Balance,	200,000.00	\$1,000,000.00

DR.

January 4, 1897. To balance,	\$200,000.00
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## ARMORIES AND MILITARY PROPERTY.

## Dr.

## GUARDS ARMORY.

## Fuel and Heating:

F. T. Akin & Co.,	\$43.50	
Proprietors of Ricketson's Block,	94.50	\$138.00

## Repairs:

F. T. Akin & Co.,	\$1.05	
Chas. O. Brightman,	24.90	
Henry W. Tripp,	13.98	
Wm. R. West,	112.56	152.49

## Rent:

Proprietors of Ricketson's Block,		700.00
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## Lighting:

N. B. Gas & Edison Light Co.,		494.64
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## Miscellaneous:

George F. Bartlett, land rent,	60.00	
S. E. Bentley, expenses of committee,	13.00	
George D. Richards, ash cans,	6.50	79.50

## NAVAL RESERVES ARMORY.

## Fuel and Heating:

Corson Coal Co.,		74.80
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## Rent:

E. R. Lewis,		800.00
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## Lighting:

N. B. Gas & Edison Light Co.,		226.08
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## Miscellaneous:

George T. Cornell, storage of boat,	20.00	
Peirce, Lewis & Co., repairing stove,	5.50	
Frank C. Smith, labor on boat,	6.65	32.15

## RIFLE RANGE.

Henry T. Ashley,	\$65.00	
Blossom Bros.,	2.02	
John Bertram,	38.57	
Chas. O. Brightman,	41.43	
Coggeshall, Maxfield & Co.,	27.85	
Miller & Hook,	134.22	

N. B. Boiler & Machine Co.,	284.11	
N. B. Street Transportation Co.,	75.00	
A. W. Perkins & Co.,	40.40	
Albert R. Pierce,	17.93	
E. I. Piper,	27.20	
A. P. Pope,	311.87	
Smith-Carlton Iron Co.,	16.86	
Samuel Whitlow,	59.04	
Chas. H. Wilcox,	4.00	
Wood, Brightman & Co.,	46.03	1,191.53
		<hr/>
		\$3,889.19
To transfer to balance,		610.81
		<hr/>
		\$4,500.00

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 CR.

By appropriation,	\$2,500.00	
Transfer from unappropriated funds,	2,000.00	\$4,500.00
	<hr/>	<hr/>

## BOARD OF ASSESSORS.

## DR.

## Clerical Help :

W. J. Abrams,	\$363.58	
Gideon H. Allen,	618.75	
Clifford Baylies,	11.00	
H. J. Brownell,	447.22	
H. A. Gifford, Jr.,	182.15	
E. B. Hadley,	3.00	
J. E. Landers,	351.40	
M. T. Mills,	59.50	
Geo. W. Parker,	121.00	
Frank Paul,	3.50	
P. J. Riley,	168.00	
H. C. Russell,	813.35	
W. A. Russell,	139.50	
S. J. Sampson,	80.00	
I. G. Stanton,	203.68	
A. G. Studley,	276.46	
E. B. Swift,	372.09	
R. R. Topham,	989.00	
C. A. Tuell,	620.78	\$5,823.96

## Carriage Hire :

Kirby & Hicks,	14.00	
E. M. Peirce,	73.00	
S. F. Perry & Son,	22.20	109.20

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\$5,933.16

To transfer to balance,

566.84

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\$6,500.00

## CR.

By appropriation,	\$5,000.00	
Transfer from unappropriated funds,	1,500.00	\$6,500.00

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## BOARD OF HEALTH.

## DR.

## Salaries :

William E. Macomber, health officer,	\$1,006.50	
Dr. C. A. Pratt, physician,	500.00	
Louis H. Richardson, inspector,	1,422.35	
Susie J. Small, clerk,	550.00	\$3,478.85

## Collecting Garbage :

Edgar H. Gammons,	13,750.00
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## Rent :

Bates & Kirby,	500.00
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## Printing and Advertising :

E. Anthony & Sons,	42.80	
Evening Journal,	14.59	
Mercury Publishing Co.,	87.00	144.39

## Vaccinations :

Anna W. Croacher, M. D.,	155.00
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## Incidentals :

Isaac L. Ashley,	1.50
Ballard & Kirschbaum,	1.00
F. S. Blanchard & Co.,	1.50
Manuel Brown,	48.00
Emma D. Caswell,	16.50
W. H. Collins & Co.,	12.50
William Deacon,	93.69
F. M. Douglass,	12.90
W. A. Greenough & Co.,	2.50
Hatch & Co.,	7.80
Nathl. Hathaway,	18.58
Kirby & Hicks,	7.00
C. H. & H. A. Lawton Co.,	94.58
William E. Macomber,	100.00
Chas. W. Milliken, M. D.,	26.00
New Bedford Gas & Edison Light Co.,	9.00
New Bedford Towboat Co.,	80.00
Samuel W. Peckham,	32.00
S. F. Perry & Son,	4.00
C. A. Pratt, M. D.,	27.00
L. H. Richardson,	60.00
W. F. Salter,	.75

Mortimer Searles,	4.20	
C. R. Sherman & Son,	2.75	
Susie J. Small,	8.00	
T. H. Soule, agent,	10.00	
So. Mass. Telephone Co.,	35.30	
W. N. Swift, M. D.,	42.00	
Robert W. Taber,	5.10	
Tug Volunteer,	5.00	
E. E. Waite, M. D.,	12.00	781.15
		<u>\$18,809.39</u>

## CR.

By appropriation,	\$17,000.00	
Transfer to balance,	1,809.39	\$18,809.39

## CEMETERIES.

## DR.

## Pay Rolls :

Oak Grove Cemetery,	\$5,896.19	
Pine Grove Cemetery,	717.88	
Rural Cemetery,	8,992.94	\$15,607.01

## Salaries :

Charles F. Cornell, superintendent,	1,200.00	
Nelson L. Pike, sexton,	566.68	
H. E. Thomas, sexton,	566.68	
Pardon A. Macomber, clerk,	852.00	3,185.36

## Sundries :

F. T. Akin & Co.,	10.00
E. Anthony & Sons,	47.06
Bliss & Nye,	4.10
C. T. Bosworth & Co.,	1.00
Briggs & Lawrence,	41.54
C. O. Brightman,	22.51
F. S. Brightman,	20.28
Brownell & Co.,	8.60
James Burke,	203.52
Wm. P. Butler,	3.35



W. J. Clarkson,	10.50
George A. Cobb,	9.41
Coggeshall, Maxfield & Co.,	16.75
W. H. Collins & Co.,	44.64
C. F. Cornell,	31.00
T. S. Corson,	157.00
C. F. Cushing,	4.66
Edward G. Davis,	8.00
Mary W. Davis,	8.91
D. H. DeMoranville,	7.00
Denison, Plummer & Co.,	24.00
DeWolf & Vincent,	13.83
William Doran & Son,	12.50
David Duff & Son,	30.50
R. T. Durfey,	.50
George A. Eggers,	2.65
Evening Journal,	19.74
Loum H. Faunce,	85.85
Faunce & Johnson,	192.00
David Ferguson,	215.25
E. H. Gammons,	2.00
Charles A. Gray,	39.41
Greene & Wood,	44.93
W. A. Greenough & Co.,	7.50
Jona. Handy Co.,	7.20
T. M. Hart & Co.,	27.67
A. B. Hathaway,	15.50
D. L. Hathaway & Son,	16.14
James H. Hathaway,	1.75
N. P. Hayes,	49.10
Thos. Hersom & Co.,	27.00
Hillman, Washburn & Co.,	38.70
A. W. Holmes,	2.75
H. S. Hutchinson & Co.,	123.80
Charles F. Jay,	2.00
Henry F. Jenks,	280.00
Perry P. Jenney & Son,	6.40
W. A. Jenney,	232.10
Jenney & Buffington,	29.47
W. A. Jennings,	2.50
E. V. Kendall,	1.25
Geo. Kirby, Jr. & Co.,	140.95
J. Frank Kirk,	90.05
C. H. & H. A. Lawton,	1.38
C. H. & H. A. Lawton Co.,	2.10

S. C. Lowe,	53.43	
P. A. Macomber,	51.32	
John W. Manchester,	156.96	
John McCue,	2.52	
Merchants' National Bank,	270.84	
Mercury Publishing Co.,	85.35	
A. D. Mitchell,	23.00	
E. D. Mosher,	28.04	
Mrs. Chas. R. Negus,	7.74	
N. B. Cordage Co.,	12.48	
N. B. Gas & Edison Light Co.,	10.42	
N. B. Ice Co.,	22.10	
N. B. Water Works,	1,367.58	
New York, New Haven & Hartford Railroad Co.,	54.02	
Jos. A. Olstein,	44.70	
Charles S. Paisler,	180.75	
Charles E. Peirce,	67.23	
E. H. Pierce,	10.20	
A. W. Perkins & Co.,	42.00	
Frank Perry & Co.,	100.50	
Eli W. Reed,	6.00	
E. G. Reynolds,	14.00	
George D. Richards,	6.50	
Sanders & Barrows Clothing Co.,	12.00	
Mortimer Searles,	3.44	
Timothy Sheehan,	57.50	
James L. Sherman,	5.04	
Southern Mass. Telephone Co.,	56.50	
F. L. Sowle & Co.,	68.16	
Nat. P. Sowle,	10.50	
F. A. Sterry,	4.91	
B. I. Stowell,	28.00	
Antonia A. Sylvia,	4.92	
Julius C. Sylvia,	36.13	
Charles H. Thomas,	1.69	
H. E. Thomas,	3.00	
Alexander A. Tripp,	71.41	
Union Street Railway Co.,	70.00	
Warren Foundry & Machine Co.,	273.57	
John Whiteside,	118.11	
Peleg C. Wilcox,	34.55	
Wilson & Wordell,	6.20	
Wood, Brightman & Co.,	17.54	\$1,549.15
		<u>\$24,741.52</u>

## CR.

By appropriation,	\$12,500.00	
Special appropriation,	2,000.00	
Transfer from unappropriated funds,	3,000.00	
Receipts as per Treasurer's report,	7,032.19	
Transfer to balance,	209.33	\$24,741.52

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## CEMETERIES—SALE OF LOTS.

## Dr.

## Pay Rolls:

Rural Cemetery,	\$665.04
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## Sundries:

Acushnet Iron Co.,	\$18.00
Acushnet Sawmill Co.,	3.00
John Bertram,	281.50
Brown Brothers Co.,	14.25
Brownell & Co.,	89.28
James Burke,	178.65
Patrick Connors,	94.50
D. H. Cook,	94.00
Corson Coal Co.,	33.00
Mary W. Davis,	4.80
Moses Denault,	27.50
Denison, Plummer Co.,	6.88
George A. Eggers,	5.55
David Ferguson,	61.80
Dollie Goodreau,	119.00
Greene & Wood,	3.75
Highways and streets,	105.96
Perry P. Jenney & Son,	1.25
Russell C. Lawton,	8.25
P. A. Macomber,	82.97
Mishler Bros.,	344.10
John W. Manchester,	167.62
John L. G. Mason,	377.79
Mercury Pub. Co.,	6.50
Miller-Knoblock Co.,	323.00
E. D. Mosher,	156.48

N. B. Brass Foundry Co.,	30.00	
Old Colony Steamboat Co.,	27.00	
Joseph A. Olstein,	562.20	
Charles E. Peirce,	224.75	
William Peirce,	249.00	
Frank Perry & Co.,	62.00	
E. H. Pierce,	3.00	
Eli W. Reed,	35.28	
S. T. Rex,	13.00	
I. B. Seeley,	176.00	
James L. Sherman,	4.25	
Southern Mass. Tel. Co.,	56.50	
F. A. Stowell,	26.50	
Julius C. Sylvia,	11.95	
Hiram C. Tripp,	9.37	
Wm. R. West,	15.00	
Wood, Brightman & Co.,	18.34	4,133.52
		<hr/>
		\$4,798.56
Jan. 4, 1897. To balance,		462.51
		<hr/>
		\$5,261.07

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 CR.

Jan. 6, 1896. By balance,	\$211.07	
Cash receipts as per Treasurer's report,	5,050.00	\$5,261.07

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 CR.

Jan. 4, 1897. By balance,	\$462.51
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## CEMETERY FUNDS.

## CR.

Jan. 4, 1897. By balance,	\$26,734.00
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## COMMONWEALTH OF MASSACHUSETTS.

## CHAPTER 62 OF 1894.

## BURIAL OF SOLDIERS.

Jan. 6, 1896. To balance,		\$245.00
Robert G. Bennett,	\$35.00	
Moriarty Bros.,	35.00	
J. D. Sullivan,	35.00	
W. C. Vaughan, Jr.,	140.00	
E. T. Wilson,	245.00	490.00
		<hr/>
		\$735.00

## CR.

By cash receipts as per Treasurer's report,	\$175.00	
Jan. 4, 1897. By balance,	560.00	\$735.00

## DR.

Jan. 4, 1897. To balance,	\$560.00
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## COMMONWEALTH OF MASSACHUSETTS.

## CHAPTER 279 OF 1889.

## SOLDIERS' AID.

## DR.

Jan. 6, 1896. To balance,		\$1,734.76
City Treasurer,	\$2,594.00	
David Duff & Son,	8.25	
C. G. Shepherd,	10.00	2,612.25
		<hr/>
		\$4,347.01

## CR.

By appropriation,	\$1,400.00	
By cash receipts as per Treasurer's report,	1,474.40	
Jan. 4, 1897. By balance,	1,472.61	\$4,347.01

## DR.

Jan. 4, 1897. To balance,	\$1,472.61
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## COMMONWEALTH OF MASSACHUSETTS.

## CHAPTER 301 OF 1894.

## STATE AID.

## DR.

Jan. 6, 1896. To balance,		\$9,065.43
City Treasurer,	\$9,520.10	
C. G. Shepherd,	58.00	9,578.10
		<u>\$18,643.53</u>

## CR.

By cash receipts as per Treasurer's report,	\$9,167.00	
Jan. 4, 1897. By balance,	9,476.53	<u>\$18,643.53</u>

## DR.

Jan. 4, 1897. To balance,		<u>\$9,476.53</u>
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## COMMONWEALTH OF MASSACHUSETTS.

## CHAPTER 447 OF 1890.

## SOLDIERS' RELIEF.

## DR.

City Treasurer,	\$4,450.65	
Commonwealth of Massachusetts,	54.79	
David Duff & Son,	15.25	
Dr. A. M. Pierce,	25.50	
Taunton Lunatic Hospital,	260.17	<u>\$4,806.36</u>

## CR.

By appropriation,	\$3,000.00	
Transfer to balance,	1,806.36	<u>\$4,806.36</u>



## COURT JUDGMENTS.

## DR.

Heirs of Joseph Brownell,	\$600.00	
Heirs of J. Augustus Brownell,	1,200.00	
Martin Garraughty,	1,568.19	
William H. Howland,	694.92	
Patrick F. Mahoney,	860.00	
William Neal,	790.71	
Patrick H. Norton,	2,219.69	
George W. Rogers,	189.35	
Elizabeth Sawyer,	305.00	
Charlotte F. Snow,	225.89	\$8,653.75

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## CR.

By transfer to balance,	\$8,653.75
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## ELECTION FUND.

## DR.

Precinct Officers,		\$1,186.00
Printing and Advertising:		
E. Anthony & Sons,	\$387.63	
Catholic Union Pub. Co.,	170.00	
L'Echo du Soir Pub. Co.,	70.00	
Mercury Pub. Co.,	1,381.65	2,009.28
Rents:		
George C. Allen,	20.00	
Bates & Kirby,	10.00	
Thomas J. Meaney,	10.00	
Spruce Street Church Society,	50.00	90.00
Hack Hire:		
Charles R. Cornell,	6.00	
P. H. King,	6.00	

Kirby & Hicks,	3.35	
C. H. Murphy,	6.00	
S. F. Perry & Son,	3.00	
E. G. Reynolds,	6.00	
W. D. Richards,	6.00	
Allen Smith, Jr.,	6.00	
T. S. Swift,	6.00	
A. A. Sylvia,	6.00	54.35

## Incidentals :

Briggs & Lawrence,	1.40
F. S. Brightman,	2.80
A. T. Brownell,	43.50
Myron W. Brownell,	10.00
W. H. Collins & Co.,	121.90
Wm. S. Cook,	7.25
Denison Bros. Co.,	4.35
DeWolf & Vincent,	1.08
Faunce & Johnson,	42.70
Patrick Ferguson,	3.50
H. B. Gardner,	10.00
John A. Gomley,	20.50
Stephen Hafford, Jr.,	10.00
B. F. Hathaway, Jr.	10.00
H. S. Hutchinson & Co.,	13.53
A. V. Jason,	10.00
Isaac M. Jones,	4.00
Daniel B. Leonard,	42.63
Hiram W. Look,	12.00
S. C. Lowe,	17.55
Arthur G. Luce,	23.00
N. B. Gas & Edison Light Co.,	2.00
John Notter,	.60
Padelford & Besse,	12.05
Samuel W. Peckham,	3.00
A. D. Piper,	11.25
D. M. Piper,	1.00
A. P. Pope,	35.90
W. H. B. Remington,	20.00
George D. Richards,	.87
Robert S. Robson,	39.50
So. Mass. Telephone Co.,	35.00
L. W. Stedman,	24.00
Robert W. Taber,	.50
E. L. Tillinghast,	15.00

George H. Walker & Co.,	164.00	
Chas. F. Wing,	3.60	
F. H. Winship,	1.95	781.91
		<hr/>
		\$4,121.54
To transfer to balance,		1,378.46
		<hr/>
		\$5,500.00

## CR.

By transfer from unappropriated funds,	<hr/>	\$5,500.00
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## ENGINEERING DEPARTMENT.

## DR.

Pay Rolls,		\$5,132.58
Wm. F. Williams, City Engineer,		2,436.00
F. T. Akin & Co.,	\$3.60	
Asa L. H. Allen,	2.50	
Edwin Allen,	.75	
E. Anthony & Sons,	8.02	
Norman Barstow,	1.35	
A. V. Benoit,	1.70	
C. O. Brightman,	87.29	
F. S. Brightman,	54.10	
Church & Hammond,	.75	
City Government Pub. Co.,	3.00	
W. H. Collins & Co.,	3.08	
C. S. & B. Cummings,	6.44	
DeWolf & Vincent,	.40	
David Duff & Son,	.75	
W. T. Emery,	5.20	
Franklin Mfg. Co.,	7.00	
Forbes Lithograph Co.,	20.00	
Frost & Adams Co.,	137.05	
Greene & Wood,	5.25	
W. A. Greenough & Co.,	2.50	
T. M. Hart & Co.,	.81	

Hatch & Co.,	\$7.60	
N. P. Hayes,	1.80	
Highways and streets,	29.07	
H. S. Hutchinson & Co.,	24.25	
P. P. Jenney & Son,	1.74	
Keuffel & Esser Co.,	38.88	
Joseph H. Lawrence,	2.50	
Library Bureau,	24.75	
S. G. Mandell,	2.15	
Mercury Pub. Co.,	41.96	
James E. Moody,	10.30	
N. B. Gas & Edison Light Co.,	26.96	
N. B. Ice Co.,	20.76	
N. B. Water Works,	3.12	
Wm. F. Nye,	2.10	
Odd Fellows Building Assn.,	700.08	
S. F. Perry & Son,	75.75	
Postal Telegraph Cable Co.,	2.10	
George D. Richards,	1.83	
George H. Richter & Co.,	42.00	
A. S. Rounsville & Co.,	1.39	
Mortimer Searles,	15.50	
Shedd & Sarle,	11.47	
C. R. Sherman & Son,	3.40	
Louis E. Shurtleff,	1.00	
So. Mass. Telephone Co.,	59.30	
Spaulding Print Paper Co.,	30.27	
S. M. Spencer & Son,	7.00	
John B. Sullivan,	50.25	
Robert W. Taber,	27.97	
Taylor & Sawtelle,	2.50	
Union Street Railway Co.,	175.00	
Lettice R. Washburn,	62.74	
W. F. Williams,	284.75	
Chas. F. Wing,	47.30	2,191.08
		<u>\$9,759.66</u>

## CR.

By appropriation,	\$8,000.00	
Cash receipts as per Treasurer's report,	15.90	
Transfer from unappropriated funds,	1,500.00	
Transfer to balance,	243.76	<u>\$9,759.66</u>

ENGINEERING DEPARTMENT.  
GRADE CROSSINGS.

DR.

Pay rolls,		\$1,379.45
F. S. Brightman,	\$2.25	
Charles R. Cornell,	1.50	
W. T. Emery,	2.70	
Frost & Adams Co.,	27.23	
H. S. Hutchinson & Co.,	9.00	
Keuffel & Esser Co.,	37.50	
George A. Kimball,	130.60	
Mercury Pub. Co.,	27.13	
N. B. Gas & Edison Light Co.,	27.06	
George H. Nye,	2.00	
Arthur E. Robbins,	250.00	
So. Mass. Tel. Co.,	1.90	
Spaulding Print Paper Co.,	20.02	
Union Street Railway Co.,	25.00	
Lettice R. Washburn,	13.61	
W. F. Williams,	110.25	687.75
		<hr/>
		\$2,067.20
Jan. 4, 1897. To balance,		414.88
		<hr/>
		\$2,482.08

CR.

Jan. 6, 1896. By balance,	\$1,482.08	
Transfer from unappropriated funds,	1,000.00	\$2,482.08

CR.

Jan. 4, 1897. By balance,	\$414.88
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## FIRE DEPARTMENT.

## DR.

## Pay rolls :

Frederick Macy, chief engineer,	\$1,000.00	
Loring T. Parlow, 1st assistant engineer,	350.00	
James J. Donaghy, 2d assistant engineer,	83.32	
Samuel C. France, 3d assistant engineer,	83.32	
William A. Gibbs, 4th assistant engineer,	250.00	
Edward F. Dahill,	166.68	
Allen W. Tinkham,	166.68	
Luther G. Hewins, Jr., clerk,	166.70	
Frederick B. Macy, clerk,	33.30	\$2,300.00
Protecting Society,	150.00	
E. L. Wilde, clerk,	50.00	200.00
Permanent men,		35,545.39
Engine Co. No. 1,	1,393.74	
“ No. 2,	1,369.56	
“ No. 4,	1,393.24	
“ No. 5,	1,393.74	
“ No. 6,	1,393.74	
“ No. 7,	1,393.74	
“ No. 8,	1,393.74	
“ No. 9,	575.00	
Hook and Ladder Co. No. 1,	1,303.40	
“ “ No. 2,	1,264.17	
“ “ No. 3,	1,272.50	
Hose Co. No. 1,	379.57	
“ No. 2,	739.75	
Chemical No. 1,	206.25	15,472.14
Repairs of engines, wagons and harnesses :		
George L. Brownell,	53.14	
Cornelius Callahan Co.,	21.00	
William Cronin & Co.,	215.20	
C. F. Cushing,	20.75	
James R. Forbes, agt.,	153.00	
L. J. Hathaway,	117.75	
N. P. Hayes,	.44	
James B. Hazzard,	3.50	
T. F. Healey,	53.35	
George G. Huddy,	22.76	
L. A. Littlefield,	10.30	
Clarence Lowell,	137.40	
Manchester Locomotive Works,	1.75	



Ernest McCarty,	3.00	
N. B. Boiler & Machine Co.,	2.96	
John F. Parker,	12.00	828.30
Repairs of engine houses:		
F. T. Akin & Co.,	2.92	
Babbitt, Wood & Co.,	27.55	
Coggeshall, Maxfield & Co.,	6.25	
C. L. Dunham,	2.48	
T. J. Gifford & Co.,	29.33	
M. S. Greene,	53.00	
Greene & Wood,	83.75	
F. W. Hammond,	55.04	
M. A. Hickey,	2.82	
S. C. Lowe,	19.68	
J. L. G. Mason,	6.36	
N. B. Boiler & Machine Co.,	230.10	
Charles S. Paisler,	.84	
John F. Parker,	.75	
E. F. Penney,	3.13	
A. W. Perkins & Co.,	1.00	
Martin H. Sullivan,	18.46	
R. H. Taber,	5.04	
Charles Thompson,	36.90	
William R. West,	35.98	
Wood, Brightman & Co.,	20.88	642.26
Hay, grain and fuel:		
F. T. Akin & Co.,	222.12	
Seth Alden,	50.55	
William Baylies,	597.79	
Edward Begley,	2.50	
J. A. Bouvier,	93.22	
Joseph T. Brownell,	100.93	
George Coggeshall,	25.90	
J. G. Davoll,	125.05	
Arthur J. Delano,	12.82	
Denison Bros. Co.,	1,001.44	
Denison, Plummer Co.,	261.90	
John J. Howland,	121.04	
Charles S. Kelley,	868.55	
J. Frank Kirk,	344.67	
Thomas N. Nash,	115.70	
John Notter,	138.85	
George H. Parker,	17.89	
S. K. Pierce,	51.34	

Poor department,	513.85	
D. H. Potter,	80.60	
Frank B. Ricketson,	545.45	
John A. Russell,	8.06	
F. Tinkham,	198.14	
Est. J. M. Tinkham,	53.01	
J. A. Viera,	95.80	5,647.17
Horse hire :		
H. T. Ashley,	102.50	
Isaac L. Ashley,	9.75	
J. V. Bancroft,	80.50	
Isaac H. Manchester,	83.00	
Mortimer McCarty,	110.00	
Frank Perry,	91.00	
E. G. Reynolds,	23.50	
Timothy Sheehan,	112.00	
Allen Smith, Jr.,	2.50	
Joseph W. Spooner,	5.00	
David Warren,	95.00	714.75
Labor :		
George W. Hawes,	2.00	
John F. Parker,	2.00	
William P. Reed,	20.00	
Highways and streets,	4.80	28.80
Blacksmithing :		
F. A. Bonneau,	31.91	
Brownell, Ashley & Co.,	269.61	
Joseph Carpenter,	67.40	
N. H. Caswell,	52.45	
H. B. Churbuck,	99.10	
E. M. Durfee,	113.01	
Fichtenmeyer & Flynn,	17.30	
John W. Footman,	64.30	
A. E. Hathaway,	228.33	
J. L. Luce,	68.35	
E. L. Macomber,	66.50	
E. B. Macy,	111.57	
E. C. Taber,	3.00	
Taylor & Donaghy,	3.13	
A. Vignault,	19.45	1,215.4
Supplies :		
Acushnet Iron Co.,	3.56	
F. T. Akin & Co.,	30.43	

American Tube Works,	14.76	
Babbitt, Wood & Co.,	1.14	
J. A. & W. Bird & Co.,	143.17	
Boston Belting Co.,	2.20	
J. Byron Bradford,	6.75	
E. S. Burlingame,	3.00	
Cornelius Callahan,	7.00	
Cornelius Callahan Co.,	795.00	
T. W. Chace & Co.,	1.40	
George A. Cobb,	9.48	
C. S. & B. Cummings,	.40	
C. F. Cushing,	5.00	
DeWolf & Vincent,	37.87	
R. E. Dietz & Co.,	22.80	
Thomas Donaghy,	1.05	
Driscoll, Church & Hall,	153.14	
Edes Manufacturing Co.,	80.00	
Greene & Wood,	4.57	
Jonathan Handy Co.,	.67	
N. P. Hayes,	.50	
S. F. Hayward,	12.00	
Thomas Hersom & Co.,	17.47	
M. A. Hickey,	3.50	
Hill, Clarke & Co.,	128.73	
Hillman, Washburn & Co.,	14.16	
George S. Homer,	6.00	
Jersey Car Spring & Rubber Co.,	33.75	
N. B. Boiler & Machine Co.,	2.75	
N. B. Cordage Co.,	2.08	
N. B. Copper Co.,	2.24	
N. B. Rubber Co.,	265.00	
New England Gamewell Co.,	474.00	
E. H. Pierce,	75.48	
George D. Richards,	28.68	
C. R. Sherman & Son,	.96	
F. L. Sowle & Co.,	10.47	
E. & K. C. Terry,	.81	
S. A. Tripp,	.93	
Wamsutta Mills,	13.88	
Washburn & Moen Manufacturing Co.,	103.03	
Western Electric Co.,	5.63	
John S. Williams,	61.00	
George S. Willis,	3.00	2,589.44
Ventilation engine house No. 2:		
C. Hammond & Son,	3.50	

T. E. Mahoney,	289.01	
A. A. Sanborn,	20.00	
John B. Sullivan,	436.15	
Henry W. Tripp,	158.24	906.90
Miscellaneous :		
Almy & Hitch,	30.33	
E. Anthony & Sons,	59.37	
H. P. Babson,	16.00	
John B. Baylies,	13.30	
P. Black,	14.90	
D. D. Briggs,	35.04	
Briggs & Lawrence,	162.72	
F. S. Brightman,	15.53	
Elihu Bunker,	1.21	
T. W. Chace & Co.,	2.71	
George H. D. V. Cleveland,	2.90	
W. H. Collins & Co.,	5.25	
M. B. Cornish,	6.00	
C. F. Cushing,	1.50	
A. C. Daniels,	20.00	
D. H. DeMoranville,	2.08	
F. M. Douglass,	49.70	
D. Duff & Son,	3.00	
W. H. Dunham,	12.00	
A. A. Dunlap,	125.00	
Evening Journal,	1.33	
Gardner & Southwick,	6.94	
Charles A. Gray,	27.86	
Greene & Wood,	4.60	
T. M. Hart & Co.,	11.05	
Hatch & Co.,	11.15	
George E. Hatch,	1.75	
A. E. Hathaway,	120.00	
M. C. Healey,	2.70	
Highways and streets,	73.95	
Hopkins & Wright,	22.00	
P. P. Jenney & Son,	26.98	
Johnson & Howland,	15.00	
C. L. Kenyon & Co.,	248.00	
La France Engine Co.	3,500.00	
C. H. & H. A. Lawton,	6.50	
Frederick Macy,	425.38	
H. M. Maine,	2.77	
Mercurey Publishing Co.,	40.40	
C. H. Mosher,	15.37	

Musical Exchange Band,	88.00	
N. B. Gas & Edison Light Co.,	705.26	
N. B. Ice Co.,	37.44	
New England Gamewell Co.,	26.62	
New York, New Haven & Hartford Railroad Co.,	.43	
L. Z. Normandin,	1.50	
James H. Nuttall,	4.80	
Sanders & Barrows Clothing Co.,	17.50	
I. H. Shay,	49.50	
F. R. Slocum,	10.00	
Southern Massachusetts Telephone Co.,	452.90	
L. A. Sylvia,	7.00	
Taylor & Sawtelle,	45.78	
George Thomas,	29.60	
Henry W. Tripp,	1.06	
William H. Washburn,	.78	
E. B. Whiting & Co.,	57.63	
C. F. Wing,	30.81	6,708.88

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 \$72,799.44

Jany. 4, 1897. To balance,

178.50

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 \$72,977.94

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 C R.

By appropriation,	\$60,000.00	
Special appropriation,	4,350.00	
Transfer from unappropriated funds,	6,000.00	
Cash receipts as per Treasurer's report,	21.20	
Transfer,	2,606.74	\$72,977.94

## FIRE DEPARTMENT, UNDERGROUND WIRES.

## Dr.

Pay rolls,		\$112.25
Acushnet Iron Co.,	\$120.65	
W. R. Brixey,	1,429.09	
Babbitt, Wood & Co.,	83.97	
C. L. Dunham,	1.05	
Gardner & Southwick,	1.68	
Greene & Wood,	8.03	
Jonathan Handy Co.,	3.73	
Highways and streets,	116.18	
Jenney & Buffington,	23.04	
Frederick Macy,	25.80	
E. B. Macy,	29.10	
N. B. Boiler & Machine Co.,	56.26	
N. B. Cordage Co.,	3.20	
N. B. Water Works,	58.18	
A. C. Smith,	2.25	
C. R. Sherman & Son,	2.14	
Washburn & Moen Manufacturing Co.,	108.00	
Wood, Brightman & Co.,	51.50	2,123.85
		<hr/>
		\$2,236.10
Jany. 4, 1897. To balance,		113.90
		<hr/>
		\$2,350.00

## Cr.

By appropriation,	\$2,000.00	
Transfer from unappropriated funds,	350.00	\$2,350.00

## Cr.

Jany. 4, 1897. By balance,	\$113.90
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## FREE PUBLIC LIBRARY.

## Dr.

## Salaries :

R. C. Ingraham, librarian,	\$2,250.00	
B. W. Pennock, assistant librarian,	1,650.00	
Mary E. Brown, assistant,	540.00	
Anna M. DeWolf, assistant,	138.50	
Florence E. Farwell, assistant,	326.20	
M. Elizabeth Frost, assistant,	21.84	
Susie H. Gammons, assistant,	540.00	
Samuel B. Hamill, assistant,	71.77	
E. L. Jones, assistant,	65.00	
Etta F. Lawrence, assistant,	265.04	
Josie A. Merrick, assistant,	540.00	
Emma J. Merrick, assistant,	224.00	
L. N. Nichols, assistant,	100.00	
P. J. Sherman, assistant,	2.25	
Elizabeth Tripp, assistant,	22.00	
Y. W. Ames, janitor,	704.00	
D. J. McAuliffe, janitor,	70.00	
Charles Brownell, page,	85.80	
Charles Bly, page,	29.25	
James Griffin, page,	43.05	
F. L. Jason, page,	207.89	
O. D. Kelleher, page,	14.65	
John E. T. Peck, page,	50.75	
C. L. Yaeger, page,	242.50	\$8,204.49

## Supplies :

E. Anthony & Sons,	55.20	
W. H. Collins & Co.,	42.00	
Greene & Wood,	6.25	
H. S. Hutchinson & Co.,	9.40	
Library Bureau,	91.66	
Mercury Pub. Co.,	20.76	
A. P. Pope,	38.06	263.33
		<hr/>
		\$8,467.82

## Cr.

By appropriation,	\$8,250.00	
Transfer to balance,	217.82	\$8,467.82

## FREE PUBLIC LIBRARY—SUBJECT CATALOGUE.

## Dr.

W. H. Collins & Co.,	\$30.00	
A. M. DeWolf,	406.00	
Samuel B. Hamill,	21.33	
E. Louise Jones,	671.00	
Library Bureau,	355.11	
L. N. Nichols,	468.00	\$1,951.44
To transfer to balance,		62.29
		<hr/> \$2,013.43

## Cr.

Jan. 6, 1896. By balance,	\$413.73	
Appropriation,	1,600.00	\$2,013.43

## FREE PUBLIC LIBRARY—DOG FUND.

## Dr.

F. T. Akin & Co.,	\$2.28
Almy & Hitch,	6.00
Almy & Milne,	6.00
E. Anthony & Sons,	249.04
F. Appolos Bradley,	23.30
Geo. L. Briggs,	52.05
Briggs & Lawrence,	27.98
F. S. Brightman,	6.07
Coffin Bros.,	26.50
W. H. Collins & Co.,	490.22
Danrell & Upham,	4.81
Evening Journal,	.47
Greene & Wood,	12 50
F. B. & F. P. Goss,	2.00
H. S. Hutchinson & Co.,	99.65
International News Co.,	1.32
Library Bureau,	6.82
Mercury Pub. Co.,	101.82
Norfolk Mfg. Co.,	5.28
Geo. R. Phillips,	3.00
E. H. Peirce,	4.80
A. P. Pope,	45.73

Geo. D. Richards,	2.38	
Henry H. Sampson,	150.30	
R. W. Taber,	13.75	
C. D. Waldron,	1.00	
Wood, Brightman & Co.,	9.00	\$1,354.07
Jan. 4, 1897. To balance,		197.22
		<hr/>
		\$1,551.29

## Cr.

Jan. 6, 1896. By balance,	\$311.87	
Cash receipts as per Treasurer's report,	1,239.42	\$1,551.29

## Cr.

Jan. 4, 1897. By balance,	\$197.22
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# FREE PUBLIC LIBRARY TRUSTEES, JAMES B. CONGDON FUND.

## Dr.

D. Appleton & Co.,	\$7.00	
H. E. Gifford,	1.80	
A. P. C. Griffin,	3.60	
H. S. Hutchinson & Co.,	3.00	
Anna R. Leonard,	4.00	
Geo. E. Littlefield,	58.48	
Sidney S. Rider, agt.,	6.75	
Sampson, Murdock & Co.,	2.00	
R. W. Taber,	15.00	\$101.63
Jan. 4, 1897. To balance,		185.09
		<hr/>
		\$286.72

## Cr.

Jan. 6, 1896. By balance,	\$256.72	
Cash receipts as per Treasurer's report,	30.00	\$286.72

## Cr.

Jan. 4, 1897. By balance,	\$185.09
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FREE PUBLIC LIBRARY TRUSTEES, GEORGE O.  
CROCKER FUND.

## Dr.

D. Appleton & Co.,	\$6.00	
Bancroft-Whitney Co.,	12.00	
N. J. Bartlett & Co.,	100.30	
F. W. Blanchard & Co.,	1.50	
Boston Public Library,	.50	
T. H. Castor & Co.,	1.18	
W. A. Greenough & Co.,	2.50	
H. S. Hutchinson & Co.,	139.69	
Little, Brown & Co.,	4.04	
Geo. E. Littlefield,	2.50	
Samuel E. Miller,	14.00	
W. P. Mitchell,	2.25	
Publisher's Weekly,	3.50	
Sampson, Murdock & Co.,	8.00	
Clinton Scollard,	1.00	
R. W. Taber,	152.52	
L. J. Thomas,	7.50	\$458.98
Jan. 4, 1897. To balance,		292.92
		<hr/>
		\$751.90

## Cr.

Jan. 6, 1896. To balance,	\$351.90	
Cash receipts as per Treasurer's report,	400.00	\$751.90

## Cr.

Jan. 4, 1897. By balance,	\$292.92
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# FREE PUBLIC LIBRARY TRUSTEES, OLIVER CROCKER FUND.

## DR.

American Antiquarian Society,	\$2.25	
Boston Book Co.,	9.60	
Egypt Exploration Fund,	5.00	
Daniel M. Geddes,	1.00	
H. S. Hutchinson & Co.,	11.74	
Little, Brown & Co.,	2.00	
John O'Neil,	7.00	
Robt. W. Taber,	21.85	\$60.44
Jan. 4, 1897. To balance,		31.73
		<hr/> \$92.17

## CR.

Jan. 6, 1896. By balance,	\$32.17	
Cash receipts as per Treasurer's report,	60.00	\$92.17

## CR.

Jan. 4, 1897. By balance,		\$31.73
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FREE PUBLIC LIBRARY TRUSTEES, GEORGE  
HOWLAND JR. FUND.

## DR.

T. H. Castor & Co.,	\$11.25	
Houghton, Mifflin & Co.,	25.00	
H. S. Hutchinson & Co.,	26.75	
Little, Brown & Co.,	22.54	
S. Raymond Roberts,	20.00	
Robert W. Taber,	53.36	\$158.90
Jan. 4, 1897. To balance,		275.13
		<hr/>
		\$434.03

## CR.

Jan. 6, 1896. By balance,	\$338.03	
Cash receipts as per Treasurer's report,	96.00	\$434.03
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## CR.

Jan. 4, 1897. By balance,	\$275.13
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FREE PUBLIC LIBRARY TRUSTEES, SYLVIA  
ANN HOWLAND FUND.

DR.

American Architect and Building News Co.,	\$25.00	
American University Magazine Pub. Co.,	2.00	
Bancroft-Whitney Co.,	12.00	
N. J. Bartlett & Co.,	208.54	
Brookline Pub. Library,	1.00	
Boston Book Co.,	46.70	
D. L. Brownell,	2.50	
T. H. Castor & Co.,	25.79	
Cleveland Pub. Library,	5.00	
Damrell & Upham,	8.01	
Dodd, Mead & Co.,	14.00	
Franklin Institute of Pennsylvania,	1.50	
S. G. Gidley,	9.00	
Harper & Co.,	11.00	
Houghton, Mifflin & Co.,	25.00	
H. S. Hutchinson & Co.,	882.43	
John Hopkins Press Co.,	1.76	
Library Bureau,	1.00	
Little, Brown & Co.,	51.49	
Geo. E. Littlefield,	55.57	
Mass. Historical Society,	6.00	
Macmillan Co.,	4.00	
Samuel Miller,	8.00	
Stephen D. Peet,	4.00	
Geo. H. Polley & Co.,	3.00	
H. V. & H. W. Poor,	7.50	
Henry H. Sampson,	624.90	
C. R. Sherman & Son,	1.00	
Gustave E. Stechert,	1.19	
Robert W. Taber,	851.30	\$2,900.18
Jan. 4, 1897. To balance,		1,612.65
		<hr/> \$4,512.83

CR.

Jan. 6, 1896. By balance,	\$1,512.83	
Cash receipts as per Treasurer's report,	3,000.00	\$4,512.83

CR.

Jan. 4, 1897. By balance,	\$1,612.65	
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FREE PUBLIC LIBRARY TRUSTEES, CHARLES  
W. MORGAN FUND.

## Dr.

American Antiquarian Society,	\$1.50	
N. J. Bartlett & Co.,	7.31	
T. H. Castor & Co.,	1.10	
H. V. Gormley,	5.00	
H. S. Hutchinson & Co.,	35.61	
R. W. Taber,	91.16	\$141.68
Jan. 4, 1897. To balance,		61.61
		<hr/>
		\$203.29

## Cr.

Jan. 6, 1896. By balance,	\$143.29	
Cash receipts as per Treasurer's report,	60.00	\$203.29

## Cr.

Jan. 4, 1897. By balance,		\$61.61
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FREE PUBLIC LIBRARY TRUSTEES, CHARLES  
L. WOOD FUND.

## DR.

T. H. Castor & Co.,	\$20.00	
H. S. Hutchinson & Co.,	54.17	
Geo. E. Littlefield,	15.30	
Sound Currency Committee of the Reform Club,	4.59	\$94.06
Jan. 4, 1897. To balance,		42.15
		<u>\$136.21</u>

## CR.

Jan. 6, 1896. By balance,	\$56.21	
Cash receipts as per Treasurer's report,	80.00	\$136.21

## CR.

Jan. 4, 1897. By balance,	\$42.15
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FREE PUBLIC LIBRARY TRUSTEES, READING  
ROOMS.

## CR.

1896. By appropriation,	\$2,500.00
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## HIGHWAYS AND STREETS.

## DR.

Pay rolls,	\$94,052.86
Teaming :	
Dr. D. C. Ashley,	\$57.75
H. P. Babson,	16.00
Wm. Baylies,	620.20
Geo. L. Brownell,	10.00
Brownell, Ashley & Co.,	275.00
Elihu Bunker,	13.75
E. S. Burlingame,	3.00
Joseph Carpenter,	2.25
N. H. Caswell,	.95
N. P. Clapp,	19.16
T. S. Corson,	43.60
A. L. Couet,	3.72
Wm. Cronin & Co.,	175.42
Dr. A. C. Daniels,	8.00
Denison Bros. Co.,	118.70
Denison, Plummer & Co.,	1,664.55
Wm. H. Dwelley,	29.25
Fichtenmeyer & Flynn,	1.55
Forbes & Co.,	20.00
John W. Footman,	2.70
J. N. Gage,	3.85
Chas. F. Grow,	183.54
G. B. Hallett,	2.25
A. E. Hathaway,	44.50
L. J. Hathaway,	79.82
Geo. G. Huddy,	175.39
T. M. Hart & Co.,	.38
James A. Jay,	79.00
P. P. Jenney & Son,	129.79
C. L. Kenyon,	1,065.00
J. Frank Kirk,	551.36
Joseph H. Lawrence,	85.26
G. G. Lawton,	172.00
W. M. Magoon,	7.00
John Notter,	19.64
A. W. Perkins & Co.,	9.50
J. L. & H. Potter,	440.00
Frank B. Ricketson,	197.75

Seollay & Rich,	5.50	
W. I. Shockley,	97.78	
Smith & Goold,	3.00	
H. C. Stanbridge,	6.41	
Viscol Co.,	12.25	6,456.52

## Repairs of boilers, crushers and rollers :

Babbitt, Wood & Co.,	1.40	
Geo. A. Cobb,	21.15	
DeWolf & Vincent,	11.97	
Farrel Foundry & Machine Co.,	16.50	
Gardner & Southwick,	.25	
Greene & Wood,	7.55	
T. M. Hart & Co.,	2.00	
Geo. E. Hatch,	8.50	
Hillman, Washburn & Co.,	2.60	
S. C. Lowe,	11.50	
N. B. Boiler & Machine Co.,	170.50	
N. B. Cordage Co.,	1.08	
N. B. Water Works,	13.87	
C. S. Paisler,	1.95	
Taylor Iron & Steel Co.,	493.52	
Frank S. Tripp,	136.35	
Wm. R. West,	.56	901.25

## Supplies and material :

Chas. H. Adams,	54.80	
City Coal Co.,	52.25	
Geo. A. Cobb,	18.93	
T. S. Corson,	359.82	
Corson Coal Co.,	175.75	
C. F. Cushing,	1.50	
Geo. Delano's Sons,	75.18	
David Duff & Son,	1,331.93	
Geo. A. Eggers,	6.06	
David Ferguson,	106.15	
Fiske Bros. Refining Co.,	181.10	
Frank E. Fitts Mfg. & Supply Co.,	19.75	
General sewers,	368.64	
T. J. Gifford & Co.,	8.99	
Dollie Goodreau,	52.65	
Jona. Handy Co.,	324.44	
N. P. Hayes,	95.50	
Chas. E. Howland,	32.29	
Geo. Kirby, Jr. & Co.,	58.18	
Mortimer McCarthy,	4.26	

N. B. Boiler & Machine Co.,	9.36	
N. B. Gas & Edison Light Co.,	1,332.00	
N. B. Street Transportation Co.,	540.50	
Willard Nye,	8.70	
O. S. Kelley Co.,	28.75	
C. S. Paisler,	11.11	
A. W. Perkins & Co.,	1,569.62	
Perkins & Chase,	11.81	
E. H. Pierce,	10.28	
C. G. & G. A. Randall,	13.79	
Robertson & Havey,	9,889.77	
Standard Oil Co.,	95.63	
Wamsutta Mills,	.38	
Wm. R. West,	152.48	
F. L. Young & Kimball,	137.59	17,139.94

## Crusher stone :

Henry C. Allen,	9.30
Joseph Andrea,	20.02
Charles M. Andrews,	81.97
Fred Andrews,	35.16
Robert Arnett,	63.84
A. H. Ashley,	22.55
Henry T. Ashley,	153.46
Loring Ashley,	12.24
Thomas J. Ashley,	12.08
Dominic Bachant,	278.59
Oliver Bachant,	49.75
Joseph Baker,	82.70
Henry Bartlett,	5.30
Joseph Basnett,	31.08
Oliver Bassett,	23.42
John Bertram,	25.72
M. Blecha,	23.19
Thomas Bleaker,	64.75
Fred. Bolles,	5.39
Geo. P. Booth,	132.16
Geo. B. Borden,	12.10
L. F. Bouchard,	112.66
Philip Bradford,	8.79
John Braga,	7.65
C. O. Brightman,	16.72
W. H. Brightman,	147.60
C. T. Brownell,	12.87
Geo. L. Brownell,	2.76



James Burke,	17.43
James Burns,	26.13
E. H. Casey,	29.65
Zach. Chaffee,	11.21
Nathan Chase,	11.75
Geo. A. Cobb,	15.89
Geo. Coggeshall,	146.50
John Conners,	165.04
Patrick Conners,	17.82
Michael Connor,	11.19
Herbert Cook,	1.28
Charles Cornell,	14.28
Pardon Cornell,	267.93
T. S. Corson,	63.53
Geo. G. Corey,	237.77
I. C. Cory,	38.61
A. H. Covell,	48.35
Eugene G. Crapo,	63.77
Edward F. Davis,	13.14
Delisle & Langlois,	138.19
Alfred Denault,	155.18
Moses Denault,	372.98
Jerry Desautel,	14.17
Jacinth DeCosta,	281.16
John Doyle,	1.20
Chas. H. Drown,	29.54
James Duddy,	36.71
David Duff & Son,	153.80
John E. Dyer,	68.92
Manuel Enos,	87.47
James Feely,	78.48
David Ferguson,	75.36
Stephen Flansburg,	54.16
Lawrence Fleury,	11.41
James T. Francis,	2.14
Geo. A. Fuller,	44.16
E. H. Gammons,	132.47
Joseph Garrion,	23.14
Charles E. Gifford,	15.24
C. T. W. Gifford,	5.81
Louis R. Gifford,	7.56
Edward Gill,	.65
Edward Goddard,	6.08
Dollie Goodreau,	49.10
Peter Gregoire,	232.43

Xavier Grenier,	4.40
David Grew, Jr.,	15.57
J. H. Gurl,	50.07
Orrin Harding,	3.00
John E. Hammond,	152.36
James Hardy,	.58
Edward Haskell,	17.15
Frank Haskell,	17.28
Haskins Bros.,	1.85
Henry W. Hathaway,	140.88
John W. Hathaway,	70.06
Sylvanus T. Hawes,	29.86
O. R. Howard,	6.07
Wm. Howard,	69.53
B. G. Howland,	2.62
Charles E. Howland,	18.52
O. R. Howland,	34.32
Jenney & Buffington,	110.82
Harriet E. Jennings,	5.88
Fred. Jones,	13.81
Jones & Stowell,	11.43
Frank Kabazki,	115.88
Maurice Kelliher,	13.28
Wm. Kenney,	23.17
Robert B. King,	70.67
Langlois & Delisle,	15.31
Daphire La Point,	6.53
Herbert W. Lawrence,	199.58
Antone Lopes,	23.97
Louis Lord,	30.00
Wm. P. Macomber,	28.01
Dennis Mahoney,	100.17
Isaac H. Manchester,	3.11
John W. Manchester,	83.42
B. M. Marston,	23.87
Walter Martin,	19.75
Michael Massi,	3.76
Mortimer McCarthy,	41.47
McLeod & Frazier,	1.09
John Mello,	6.90
Miller & Hook,	5.97
Joseph Mitard,	6.80
A. D. Mitchell,	1.14
Frank Monty,	21.29
John Moreau,	6.62

E. C. Morse,	57.66
E. W. Morse,	4.38
Frank P. Morton,	9.14
Walter F. Mosher,	69.56
Henri Mossi,	126.66
Philius Mossi,	4.80
Jules Moquin,	11.74
Nicholas Myers,	13.01
Benj. Negus,	64.27
Charles H. Negus,	305.97
N. B. Street Transportation Co.,	24.79
N. B. Water Works,	162.42
N. B. Water Works, further water supply,	113.45
Clifton Nichols,	175.55
John Niles,	5.86
Fred. P. Norton,	9.26
George Norton,	86.18
Wm. S. Osgood,	15.65
J. H. Paige,	12.74
Benj. Peckham,	83.82
Reuben B. Peckham,	43.51
A. W. Perkins & Co.,	68.19
A. Pellerin,	43.13
Frank Perry,	47.94
Manuel Perry,	92.20
Herman Pike,	29.18
Howard Pittsley,	6.58
Wm. E. Pittsley,	5.19
I. B. Poole,	17.07
Sarah C. Potter,	53.20
Frank Pratt,	2.73
Joseph Pratt,	37.52
Calvin Raymond,	70.31
Barney Reagan,	230.42
Leroy M. Reams,	21.38
Eli W. Reed,	174.08
Willard B. Reed,	4.71
William B. Reed,	15.16
Thomas W. Reed,	20.86
Leander Reed,	5.64
Edward Reynolds,	36.01
Joseph W. Robbins,	3.62
Abiatha Rogers,	576.85
E. D. Rogers,	7.79
Geo. W. Rogers,	14.72

Joseph H. Rogers,	19.38
Ernest Rondeau,	225.41
Proper Rondeau,	24.30
Arthur Roy,	155.59
Antone Sequeira,	12.82
Timothy Sheehan,	50.65
Albert C. Skiff,	3.51
Andrew Skiff,	17.32
Geo. Slice,	34.35
B. F. Smith,	44.06
Geo. F. Smith,	54.69
John A. Smith,	21.96
Joseph Sorrell,	19.36
F. J. Spencer,	1.12
Geo. Spencer,	351.89
Chas. F. Spooner,	20.29
E. F. Spooner,	27.28
E. S. Spooner,	28.54
James L. Spooner,	8.55
Joseph Spooner,	12.23
Joseph W. Spooner,	63.81
John Spurr,	2.93
Geo. B. Stafford,	.93
Alonzo Stone,	216.74
F. A. Stowell,	66.52
Albert Strong,	6.09
John B. Sullivan,	1,225.22
E. R. Swain,	111.53
Morris Sweeney,	30.90
Jesse Sylvia,	6.54
Joseph Sylvia,	9.90
Manuel L. Sylvia,	9.43
Frank E. Taber,	2.85
Fred. C. Taber,	5.93
O. R. Taber & Son	66.28
Antone Thomas,	113.90
L. F. Thomas,	14.06
Chas. E. Tilton,	9.22
Alex. A. Tripp,	6.11
E. B. Tripp,	8.52
Fred. Tripp,	45.33
Geo. W. Tripp,	1.86
L. A. Tripp,	6.84
W. O. T. Upham,	175.09
Emery Vegeaut,	11.67

David Wainer,	48.89	
Walter L. Wainer,	42.13	
David Warren,	94.37	
George Weaver,	17.05	
Clarence E. Westgate,	80.53	
E. F. Westgate,	1.48	
Clifford White,	30.56	
John Whiteside,	69.78	
Deborah A. Wilbur,	50.33	
Geo. F. Wilbur,	80.09	
S. S. Wilbur,	180.13	
T. B. Wilcox,	7.10	
Eli Williams,	23.17	
Jos. Williams,	115.52	
Samuel Wing,	151.58	
John Wordell,	4.91	13,694.44
Paving stone :		
Henry C. Allen,	1.55	
Edward H. Casey,	2.41	
George A. Cobb,	1.40	
John Connors,	14.15	
Michael Connors,	60.26	
Patrick Connors,	60.44	
James Duddy,	7.82	
David Duff & Son,	336.12	
E. H. Gammons,	160.34	
David Grew, Jr.,	3.06	
Henry W. Hathaway,	2.06	
Patrick Harding,	3.76	
Mortimer McCarthy,	662.65	
A. W. Perkins & Co.,	4.71	
Frank Perry,	22.95	
Richard D. Poole,	12.88	
Sarah C. Potter,	30.71	
Geo. W. Rogers,	13.58	
John B. Sullivan,	9.42	
Joseph Sylvia,	62.85	
M. L. Sylvia,	132.90	
David Warren,	151.02	1,757.04
Miscellaneous :		
F. T. Akin & Co.,	19.07	
A. W. Allen,	8.92	
Almy & Hitch,	35.00	
Ames Plow Co.,	4.20	

E. Anthony & Sons,	78.89
Babbitt, Wood & Co.,	10.03
Ballard & Kirschbaum,	2.00
J. V. Baneroft,	7.80
Bay State Chair Co.,	1.88
Wm. Baylies,	10.15
P. Black,	54.85
F. S. Blanchard,	1.50
Blossom Bros.,	27.13
Chas. O. Brightman,	422.00
F. S. Brightman,	103.07
T. S. Buck,	2.46
J. M. Burgess,	24.00
J. G. Childs & Son,	8.45
Church & Hammond,	6.80
Geo. A. Cobb,	2.00
W. H. Collins & Co.,	37.00
Wm. S. Cook,	25.00
C. R. Cornell,	4.00
O. E. Covil,	26.50
C. S. & B. Cummings,	.60
Henry W. Cushman,	5.62
DeWolf & Vincent,	121.21
W. S. Dodge,	5.25
Driscoll, Church & Hall,	34.55
C. H. Drown,	24.60
David Duff & Son,	295.64
W. T. Emery,	10.25
Engineering Dept.,	2.00
Engineering News Pub. Co.,	14.40
Engineering Record,	5.00
Evening Journal,	50.68
Fairhaven Iron Foundry Co.,	6.20
David Ferguson,	59.65
Fournier & Nicholson,	2.50
A. R. Frissell,	2.50
J. H. Gerlach,	2.00
Chas. A. Gray,	1.27
Greene & Wood,	8.60
W. A. Greenough,	5.00
Chas. F. Grow,	.75
T. M. Hart & Co.,	55.35
F. B. Hathaway,	1.50
Henry W. Hathaway,	37.00
Hatch & Co.,	3.20



Geo. E. Hatch,	62.37
M. A. Hickey,	269.45
Hillman, Washburn & Co.,	25.83
Dr. G. deN. Hough,	32.00
E. Howard Watch Co.,	6.00
H. S. Hutchinson & Co.,	17.00
James A. Jay,	14.00
P. P. Jenney & Son,	59.55
Jenney & Buffington,	12.00
Kirby & Hicks,	4.00
Chas. F. Lawton,	80.41
Wm. Lewis,	8.00
Library bureau,	60.00
S. C. Lowe,	119.52
E. B. Macy,	15.66
S. G. Mandell,	2.00
Walter Martin,	14.70
John McCue,	7.98
John McCullough,	23.26
John J. Meaney,	253.73
Mercury Pub. Co.,	265.25
Municipal Engineering Co.,	2.00
N. B. Cordage Co.,	51.33
N. B. Fire Department,	2.00
N. B. Gas & Edison Light Co.,	446.85
N. B. Ice Co.,	31.40
N. B. Rubber Co.,	2.48
N. B. Steam Carpet Beating Co.,	4.50
N. B. Street Transportation Co.,	8.00
N. B. Water Works,	68.10
N. Y., N. H. & H. Railroad Co.,	32.47
Richard Nofftz,	12.25
Geo. H. Nye,	2.00
Odd Fellows Building Association,	999.96
C. S. Paisler,	10.70
Edward M. Peirce,	47.00
A. W. Perkins & Co.,	11.70
S. F. Perry & Son,	7.25
Dr. A. M. Pierce,	10.00
E. H. Pierce,	10.38
C. G. & G. A. Randall,	110.78
E. G. Reynolds,	29.50
Geo. D. Richards,	35.76
Sanders & Barrows,	8.71
C. R. Sherman & Son,	1.50

James L. Sherman,	2.50	
Smith-Carleton Iron Co.,	.74	
So. Mass. Tel. Co.,	364.34	
F. L. Sowle & Co.,	54.50	
James E. Stanton,	5.30	
Suffolk Engraving Co.,	13.87	
Dr. James F. Sullivan,	7.00	
E. C. Taber,	29.34	
Robert W. Taber,	20.30	
Frank S. Tripp,	55.00	
Henry W. Tripp,	21.00	
Charles H. Vinal,	4.35	
Wakefield Rattan Co.,	17.00	
David Warren,	3.00	
Wilson & Wordell,	21.00	
C. F. Wing,	.49	
J. Henry Wood,	5.00	
Wood, Brightman & Co.,	36.31	
Department of wharves,	242.50	5,880.89
		<hr/>
		\$139,882.94
To transfer to balance,		2,813.53
		<hr/>
		\$142,696.47

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### CR.

By appropriation,	\$90,900.00
Transfers from unappropriated funds,	44,340.67
“ general sewers,	3,000.00
“ sewer, Acushnet, No. 20,	5.09
“ “ Arnold street, No. 3,	151.66
“ “ Borden street, No. 3,	66.82
“ “ Bullard street, No. 2,	29.20
“ “ Chancery street, No. 3,	27.24
“ “ Chestnut street, No. 3,	575.31
“ “ Dean street,	1,543.67
“ “ Front street, No. 12,	80.58
“ “ Hall street, No. 2,	129.49
“ “ Locust street, No. 3,	121.99
“ “ Kempton street,	58.93
“ “ Merrimac street, No. 2,	179.20
“ “ Mill street, No. 7,	32.16
“ “ Nye street, No. 2,	24.76
“ “ Orchard street, No. 5,	948.16

Transfers sewer, Rotch street,	105.93
“ “ Scott street,	123.50
“ “ Shawmut ave., No. 4,	79.42
“ “ Union and Palmer streets,	164.60
“ “ Butler street,	1.62
“ “ Davis street, No. 3,	1.90
“ “ Front street, No. 11,	3.23
“ “ Weaver street,	1.34
	<u>\$142,696.47</u>

## CONSTRUCTION OF SHED AND FENCE, CITY STABLE.

### Dr.

Pay rolls,		\$235.53
Blossom Bros.,	\$47.62	
DeWolf & Vincent,	18.03	
Greene & Wood,	156.25	
N. P. Hayes,	6.40	
Highways and streets,	319.01	
Geo. Kirby, Jr. & Co.,	26.25	
A. W. Perkins & Co.,	150.50	
C. G. & G. A. Randall,	315.40	
John B. Sullivan,	50.36	1,089.82
		<u>\$1,325.35</u>

### Cr.

By special appropriation,	\$1,200.00	
transfer from sewer, Dean street,	71.72	
transfer to balance,	53.63	\$1,325.35

## DREDGING DOCKS.

### Dr.

Columbia Dredging Co.,	\$60.16
To transfer to balance,	39.84
	<u>\$100.00</u>

### Cr.

Jan. 6, 1896. By balance,	<u>\$100.00</u>
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1897.

## AUDITOR'S REPORT.

59

## LAND DAMAGES, WIDENING BROCK AVENUE.

## Dr.

Stephen A. Brownell,	\$271.60
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## Cr.

By special appropriation,	\$271.60
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## LAND DAMAGES, WIDENING FOURTH STREET.

## Dr.

Pay rolls,		\$318.85
David Duff & Son,	\$67.50	
Highways and streets,	771.49	838.99
		<hr/> \$1,157.84
Jan. 4, 1897. To balance,		3,342.16
		<hr/> \$4,500.00

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## Cr.

Jan. 6, 1896. By balance,	\$4,500.00
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## Cr.

Jan. 4, 1897. By balance,	\$3,342.16
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LAND DAMAGES, WIDENING PURCHASE ST.,  
MIDDLE ST. TO KEMPTON ST.

## Dr.

Pay rolls,		\$369.61
P. Connors,	\$9.19	
Mrs. Arvilla Delano et als.,	10,800.00	
E. H. Gammons,	4.00	
General sewers,	88.59	
James A. Gifford, atty.,	5,158.00	

Highways and streets,	518.04	
James D. T. Kent,	4,536.00	
Mrs. Warren B. Potter,	4,164.00	
Charlotte F. Snow,	10,905.00	36,182.82
		<hr/>
		\$36,552.43
Jan. 4, 1897. To balance,		3,023.57
		<hr/>
		\$39,576.00

CR.

By appropriation,	<hr/>	\$39,576.00
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CR.

Jan. 4, 1897. By balance,	<hr/>	\$3,023.57
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## LAND DAMAGES, WIDENING UNION STREET.

DR.

Pay rolls,		\$164.81
Highways and streets,	\$275.33	
N. B. Institution for Savings,	9,920.00	
Daniel Ricketson,	9,685.00	19,880.33
		<hr/>
		\$20,045.14
Jan. 4, 1897. To balance,		2,419.86
		<hr/>
		\$22,465.00

CR.

Jan. 6, 1896. By balance,	<hr/>	\$22,465.00
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CR.

Jan. 4, 1897. By balance,	<hr/>	\$2,419.86
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## INCIDENTALS.

## Dr.

## Advertising :

E. Anthony & Sons,	\$1,035.50	
Catholic Union Pub. Co.,	640.75	
Evening Journal,	302.70	
L'Echo du Soir,	26.00	
Mercury Pub. Co.,	904.67	2,909.62

## Assessors :

Gideon H. Allen,	41.25	
J. E. Landers,	30.00	
H. C. Russell,	40.00	
R. R. Topham,	72.00	
C. A. Tuell,	45.00	228.25

## Births, marriage and death returns :

D. S. Belanger, M. D.,	3.75	
Robert G. Bennett,	27.75	
Wm. E. Brownell, M. D.,	3.75	
R. L. Carter, M. D.,	3.25	
Mary Cooper,	2.25	
A. B. Cushman, M. D.,	.75	
A. Desautels,	14.75	
H. L. Dwight, M. D.,	1.00	
Louisa S. Ellis,	1.25	
Mary Fliteroft,	9.75	
J. E. Fortin, M. D.,	18.50	
Mary Frates,	6.50	
Emilie Guba,	.50	
Mary A. Hanlon,	.75	
Sarah Hope,	5.00	
C. R. Hunt, M. D.,	3.75	
Esther M. Jameson,	7.75	
J. B. Jean,	45.75	
A. P. Lagasse,	22.25	
D. B. Leonard,	312.50	
M. H. Leonard, M. D.,	30.25	
C. F. Lussier, M. D.,	39.50	
C. W. Milliken, M. D.,	2.00	
Moriarty Bros.,	14.00	
T. J. Murphy,	24.00	
L. Z. Normandin, M. D.,	82.25	
C. A. B. Peterson, M. D.,	12.75	



A. M. Pierce, M. D.,	24.25	
J. C. Pothier, M. D.,	8.00	
C. A. Pratt, M. D.,	7.00	
A. E. Richard, M. D.,	5.25	
John Rogers,	14.25	
J. C. Shaw, M. D.,	4.50	
W. C. Sheehy, M. D.,	3.75	
J. P. St. Germain, M. D.,	2.25	
J. D. Sullivan,	29.25	
W. N. Swift, M. D.,	13.75	
Abbie A. Tripp,	1.00	
Harriet Tripp,	1.25	
W. C. Vaughan, Jr.,	57.25	
A. P. Webber, M. D.,	6.75	
Helen W. Webster, M. D.,	6.75	
Joseph S. Williams,	46.50	
E. T. Wilson,	79.50	1,007.50

## Clerical help:

A. H. W. Carpenter,	64.00	
Grace A. Caswell,	190.30	
H. R. Luther,	472.00	
F. A. Murphy,	505.00	
Ruth S. Sherman,	750.00	
E. L. Tillinghast,	104.74	
F. T. Weeden,	468.00	2,554.04

## Damages and legal expenses:

William Addy,	54.60	
Margaret S. Bowker,	25.00	
John T. Bullard, M. D.,	15.00	
Wm. M. Butler,	200.00	
Thomas M. Chase,	75.00	
Arvilla Delano et als.,	217.80	
A. B. Drake,	25.00	
James A. Gifford, atty.,	98.86	
Adeliza M. Greene,	125.00	
Lemuel LeB. Holmes,	225.00	
Virginia Jaques,	100.00	
Eliza Jenkins,	50.00	
James D. T. Kent,	93.74	
Jason F. Murdock, Jr.,	150.00	
John Muspratt,	75.00	
Mrs. Warren B. Potter,	83.28	
Eliot D. Stetson,	51.74	

T. M. Stetson,	114.64	
Mary A. Tripp,	180.00	1,949.66
Elections, 1895 :		
Andrew Burns,	20.00	
Coffin Bros.,	9.00	
S. F. Perry & Son,	6.00	
E. G. Reynolds,	6.00	
Wm. H. Sherman,	3.00	
Allen Smith, Jr.,	3.00	
T. S. Swift,	3.00	
Wood, Brightman & Co	3.15	53.15
Janitors :		
D. J. McAuliffe,	780.00	
D. M. Piper,	676.00	1,456.00
Labor and cleaning :		
Luther Blackwell,	2.80	
Walter N. Caswell,	5.00	
A. D. Piper,	3.00	
D. M. Piper,	12.90	
Walter Walters,	9.13	32.83
Layout of Bourne street :		
Geo. F. Bartlett,	380.35	
Wm. H. Reynard,	19.65	400.00
Layout of Cove street :		
John Jackson,	68.40	
Jose da Souza Maciel,	99.60	168.00
Layout of North Front street :		
Charles L. Clapp,	175.00	
Michael Considine,	200.00	
John Fregeau,	110.00	485.00
Layout of Short street :		
Benjamin Tripp,	115.84	
George Tripp,	231.66	
Job Tripp,	115.83	
John K. Tripp,	231.67	695.00
Layout of Summer street :		
Charles E. King,	3,944.75	
Hannah O'Brien,	2,257.00	6,201.75

## Lights and fuel:

F. T. Akin & Co.,	245.57	
Merton B. Ashley,	20.00	
Denison Bros. Co.,	405.50	
A. W. Holmes,	3.25	
N. B. Gas & Edison Light Co.,	2,075.61	
John Notter,	.45	2,750.38

## Memorial day:

Acushnet Iron Co.,	15.96	
Geo. N. Alden,	1.21	
American Band,	63.00	
E. Anthony & Sons,	17.54	
Isaac L. Ashley,	8.50	
W. W. Atwood,	1.00	
Peleg Bosworth,	5.00	
Boston Regalia Co.,	40.00	
A. R. Caswell,	26.50	
Geo. A. Caswell,	10.00	
Michael Clark,	7.00	
T. W. Cook,	5.49	
O. E. Covil,	5.00	
Evening Journal,	9.74	
T. J. Gifford & Co.,	56.93	
Hill's N. B. Band,	110.00	
Rev. M. S. Kaufman,	50.00	
P. H. King,	8.00	
Augustus Manning,	2.00	
Musical Exchange Band,	44.00	
N. B. Decorating Co.,	15.00	
N. B. Ice Co.,	10.00	
Oak Hall Clothing Co.,	18.37	
E. M. Peirce,	3.00	
J. Henry Peirce,	20.00	
Wm. Peirce,	1.45	
Joseph F. Perry,	10.00	
S. F. Perry & Son,	7.00	
Alexander O. Peirce,	52.07	
Geo. R. Reed,	1.50	
Reiter's National Band,	66.00	
Fred W. Sprague,	10.00	
R. W. Taber,	.99	
A. R. Tripp,	5.75	
Union Street Railway Co.,	30.00	
E. T. Wilson,	12.00	750.00

## Miscellaneous :

W. J. Abrams, delivering tax bills,	31.00
A. J. Akin, delivering tax bills,	15.00
F. T. Akin & Co., shellac, paint and brushes,	52.86
Asa L. H. Allen, frame,	1.50
Almy & Hitch, decorating,	49.75
James T. Almy, reading glass,	.85
C. E. Anthony, delivering tax bills,	15.00
E. Anthony & Sons, Evening Standard,	37.00
Isaac L. Ashley, carriage hire,	12.00
W. A. Baker, conveying truants,	8.16
Ballard & Kirschbaum, telephone index,	5.00
J. V. Bancroft, watering streets,	60.00
Bates Machine Co., repairing stamps,	4.50
F. S. Blanchard & Co., year book,	3.00
Geo. C. Bliss, care of cemetery lots,	5.88
Bliss & Nye, mops, dusters and whisks,	4.08
Board of Assessors, tax bills,	75.00
Boston Daily Advertiser, advertising,	6.00
C. T. Bosworth & Co., soap,	2.75
Geo. E. Briggs, expenses,	29.41
Briggs & Lawrence, repairs of furniture,	14.64
Brightman, F. S., toilet paper,	4.50
C. O. Brightman, labor at assessors' office,	30.61
Bristol County, board of truants,	1,250.46
Albion T. Brownell, lunches,	78.00
G. K. Brownell, delivering tax bills,	12.50
H. J. Brownell, delivering tax bills,	50.00
H. J. Brownell, soap,	1.20
Dennis Calnan, return of sewer tax,	10.00
Cemeteries, care of lots,	1,316.51
Century Co., municipal government,	4.00
Chas. C. Chamberlain, voucher cases,	7.20
Church & Hammond, soap and chloride,	2.26
City Auditor, office expenses,	26.00
City Government Pub. Co., subscriptions,	9.00
City Treasurer, office expenses,	612.21
Geo. H. Clough, delivering tax bills,	18.00
Wendell H. Cook, preparing proof,	25.00
Robert Cooke, use of horse,	5.00
Chas. R. Cornell, carriage hire,	5.00
Chas. S. Crapo, delivering summons,	12.50
C. S. & B. Cummings,	2.93
Edward G. Davis, care of cemetery lot,	4.68
Fred. C. Dawe, delivering tax bills,	21.00

John Deacon, return of sewer tax,	10.00
E. A. DeWolf, services,	9.00
DeWolf & Vincent, hardware,	6.96
W. Dodge & Son, soap,	20.62
F. M. Douglass, disinfectants,	3.20
David Duff & Son, teaming,	131.75
W. T. Emery, mantel and chimneys,	9.05
Geo. England, delivering tax bills,	24.00
A. W. Forbes, delivering tax bills,	27.00
Chas. H. Fuller, delivering tax bills,	77.25
P. B. Gifford, use of boat,	65.00
H. B. Gardner, delivering tax bills,	15.00
Chas. A. Gray, carting and freight,	1.19
H. A. Gray, delivering tax bills,	15.00
W. A. Greenough & Co., directories,	27.50
Edward S. Haskell, flowers,	14.00
Hatch & Co., express,	21.83
A. B. Hathaway, use of plants,	5.00
L. J. Hathaway, making box,	1.00
N. P. Hayes, hardware,	2.21
Highways and streets, trimming trees,	360.72
Samuel Hobbs & Co., making book,	11.50
L. LeB. Holmes, expenses textile schools,	20.00
L. W. Howland, making box,	6.76
T. D. Howland, deputy constable,	260.00
H. S. Hutchinson & Co., fitting plans and pen,	2.60
Investor Pub. Co., subscription,	4.00
A. V. Jason, repairing seal,	1.00
Joseph I. Jennings, fitting badge,	1.50
M. R. Johnson, service,	.25
James T. Keene, practical book,	2.50
Wm. L. Kelley, clock and cleaning clocks,	14.85
David Kempton, 2d, est., land rent,	75.00
E. V. Kendall, type writer work,	1.00
L. A. Keith, copying contracts,	40.95
Kirby & Hicks, carriage hire,	4.00
C. F. Lawton, city forester,	100.00
Daniel B. Leonard, office expenses,	113.88
Library Bureau, index case,	51.25
Little, Brown & Co., municipal corporations,	12.00
R. E. Lusk & Son, income book,	12.00
H. M. Maine, beating carpets,	3.84
S. G. Mandell, fitting batteries,	1.75
Geo. F. Maxfield, making tin box,	4.40
James G. Meade, delivering summons,	25.00

Merchants' National Bank, rent,	284.00
Mercury Pub. Co., Daily Mercury,	30.00
Frank Monty, use of horse,	3.00
Morgan, Crossman & Co., stamps,	13.40
F. A. Murphy, delivering tax bills,	3.75
Nat'l Bank of the Commonwealth, commission,	15.00
N. B. Board of Trade, expenses on ferry hearing,	250.00
N. B. Ice Co., ice,	89.55
N. Y., N. H. & H. Railroad Co., sewer rent,	200.00
“ “ “ mileage books,	100.00
N. B. Safe Deposit & Trust Co., rent,	25.00
N. B. Street Transportation Co., teaming,	15.25
Niagara Pub. Co., municipalities and county,	2.00
North Congregational church, use of bell,	60.00
James H. Nuttall, soap,	1.05
Oak Hall Clothing Co., use of equipments,	14.00
Odd Fellows Building Association, rent,	150.00
F. W. Oesting, appraisal of buildings,	10.00
Edmund O'Keefe, office expenses,	97.40
Padelford & Besse, desk,	18.91
David L. Parker, office expenses,	128.40
Geo. W. Parker, services of tax account and writing reports of 1891 and 1892,	426.52
W. W. Parker, iron voucher boxes,	25.00
Thos. L. Parsons, sewer tax,	20.00
Chas. L. Peek, fitting key,	.50
Edward M. Peirce, carriage hire,	17.00
Wm. Peirce, floral mounds,	45.00
Wm. Peirce, care of cemetery lot,	1.50
S. F. Perry & Son, carriage hire,	190.89
E. H. Pierce, toilet paper,	.60
Henry T. Phillips, superintending delivery of coal,	15.00
A. D. Piper, care of Mayor's office,	54.00
C. B. Piper, cleaning council chamber,	46.00
C. B. Piper, delivering tax bills,	24.00
D. M. Piper, carting settees,	6.76
D. M. Piper, services as messenger,	33.75
A. P. Pope, screens,	8.03
Postal Telegraph Cable Co., telegrams,	2.38
Real estate tax account, return of tax,	13.78
Register of Deeds, fees,	2.00
E. G. Reynolds, carriage hire,	4.00
Geo. D. Richards, baskets, dusters and cus- padores,	9.98





Geo. F. Winslow, delivering summons,	15.00	
Yale & Towne Mfg. Co., cleaning lock,	15.00	10,743.85
		<hr/>
		\$32,385.03
To transfer to balance,		6,264.97
		<hr/>
		\$38,650.00

## CR.

By appropriation,	\$30,000.00	
Special appropriation,	7,271.75	
Transfer from unappropriated funds,	1,150.00	
Cash receipts as per Treasurer's returns,	228.25	\$38,650.00

### PINGREE SYSTEM FOR THE BENEFIT OF THE POOR AND UNEMPLOYED.

## DR.

E. Anthony & Sons,	\$8.37	
Benjamin S. Brownell,	3.15	
Wm. F. Chase,	450.00	
G. W. A. Cobb,	23.00	
Evening Journal,	2.50	
Highways and streets,	39.62	
Mercurey Pub. Co.,	6.55	
N. B. Horticultural Co.,	2.75	
N. B. Printing Co.,	2.25	
John Notter,	18.00	
S. S. Paine & Bro.,	38.50	
F. H. Pasell,	2.55	
A. W. Perkins & Co.,	55.76	
E. G. Reynolds,	4.00	
Patrick Smith,	2.25	
Wilson & Wordell,	42.40	\$701.65
Jan. 4, 1897. To balance,		798.35
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		\$1,500.00

## CR.

By special appropriation,	\$1,500.00
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## CR.

Jan. 4, 1897. By balance,	\$798.35
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## PURCHASE OF "LEONARD PAPERS."

DR.

Lucy A. Leonard, admx.,	\$3,000.00
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CR.

By special appropriation,	\$3,000.00
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## REVISION OF ORDINANCES.

DR.

Wendell H. Cobb,	\$500.00
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CR.

By special appropriation,	\$500.00
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## KEMPTON STREET SCHOOLHOUSE AND LOT.

DR.

Fuller & Warren Warming & Ventilating Co.,	\$300.00
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CR.

Jan. 6, 1896. By balance,	\$300.00
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## LICENSE COMMISSION.

DR.

E. Anthony & Sons,	\$37.03
Geo. F. Brightman,	3.00
W. H. Collins & Co.,	10.50
Evening Journal,	22.23
G. N. Hall,	16.70
John J. Howland,	47.58
I. B. Maxfield,	294.68

1897.

## AUDITOR'S REPORT.

71

Mercury Pub. Co.,	103.76	
S. F. Perry & Son,	29.25	
Wm. D. Richards,	2.25	
F. R. Slocum,	1.25	\$568.23
To transfer to balance,		106.77
		<u>\$675.00</u>

CR.

By appropriation,	<u>\$675.00</u>
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## LIGHTING THE STREETS.

DR.

Globe Gas Lighting Co.,		\$13,599.28
N. B. Gas & Edison Light Co.:		
Arc lights,	\$20,996.85	
Gas lights,	10,062.45	
Incandescent lights,	1,454.09	32,513.39
Sundries:		
Acushnet Iron Co.,	168.00	
Fournier & Nicholson,	23.25	
Globe Gas Light Co.,	7.50	
Samuel C. Hunt,	5.25	
Benjamin Irish,	9.00	
F. A. Kempton est.,	25.00	
N. B. Gas & Edison Light Co.,	218.80	456.80
		<u>\$46,569.47</u>

CR.

By appropriation,	\$45,000.00	
Transfer to balance,	1,569.47	<u>\$46,569.47</u>

## COGGESHALL STREET BRIDGE, MAINTENANCE.

## DR.

Pay rolls,		\$26.74
DeWolf & Vincent,	\$1.00	
Geo. E. Hatch,	.75	
Highways and streets,	20.23	21.98
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		\$48.72
To transfer to balance,		451.28
		<hr/>
		\$500.00

## CR.

By appropriation,	\$500.00
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## COGGESHALL STREET BRIDGE, REPAIRS.

## DR.

Pay rolls,		\$370.37
C. E. Davis,	\$140.00	
DeWolf & Vincent,	13.90	
James B. Hamlin,	256.00	
Jona. Handy,	.10	
N. P. Hayes,	2.25	
Highways and streets,	658.48	
King Bridge Co.,	2,962.50	
S. C. Lowe,	36.05	
Osborne & Co.,	15.00	4,084.28
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		\$4,454.65

## CR.

Jan. 6, 1896. By balance,	\$2,987.50	
By special appropriations,	1,225.00	
Transfer to balance,	242.15	\$4,454.65

## NEW BEDFORD AND FAIRHAVEN BRIDGE.

## DR.

Pay rolls,		\$1,154.14
E. Anthony & Sons,	\$1.00	
Lot B. Bates,	4.25	
Geo. S. Bowen,	3.65	
Abram Chace & Co.,	1,332.63	
C. E. Davis,	20.00	
James D. Driggs,	27.67	
D. Duff & Son,	10.10	
Evening Journal,	.97	
Greene & Wood,	2.85	
James B. Hamlin,	16.00	
T. M. Hart & Co.,	1.16	
Highways and streets,	46.58	
Mercury Pub. Co.,	.97	1,467.83
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		\$2,621.97
To transfer to balance,		2,378.03
		<hr/>
		\$5,000.00

## CR.

By appropriation,	\$5,000.00
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## NEW BEDFORD SCHOOL COMMITTEE.

## "HOWLAND FUND."

## DR.

Estate of James T. Almy,	\$88.00
Alpha Publishing Co.,	2.00
American Book Co.,	83.14
American Humane Education Society,	3.75
D. Appleton & Co.,	6.96
Daniel Appleton & Co.,	10.49
Boston School Supply Co.,	88.91
Briggs & Lawrence,	2.87
D. L. Brownell,	4.25
Century Co.,	12.50
W. H. Collins & Co.,	9.00
Katherine M. Crabtree,	3.00
O. Ditson & Co.,	13.62
Educational Pub. Co.,	5.49
Eimer & Amend,	25.52
Franklin Educational Co.,	2.70
Ginn & Company,	397.55
James H. Gorham,	54.46
J. L. Hammett Co.,	39.99
Harper & Bros.,	54.02
W. E. Hatch,	8.40
John G. Haynes & Co.,	9.00
D. C. Heath & Co.,	59.78
Hillman, Washburn & Co.,	2.00
Holden Patent Book Cover Co.,	156.02
Houghton, Mifflin & Co.,	251.69
H. S. Hutchinson & Co.,	190.15
Leach, Shewell & Sanborn,	63.26
Lee & Shepard,	18.20
Lothrop Publishing Co.,	.87
Macmillan & Co.,	1.73
Perry Mason & Co.,	85.58
Mass. Society for Prevention of Cruelty to Children,	.50
Maynard, Merrill & Co.,	16.20
T. H. McAllister,	16.40
Samuel E. Miller,	32.50
National Science Association of America,	20.00
George Peirce,	401.00
George S. Perry & Co.,	144.03
Prang Educational Co.,	2.78

George H. Richter & Co.,	.75	
Russell Publishing Co.,	2.00	
Charles Scribner's Sons,	11.29	
C. R. Sherman & Son,	3.00	
Silver, Burdett & Co.,	37.55	
Taber Art Co.,	2.00	
R. W. Taber,	54.48	
University Publishing Co.,	18.98	
Werner School Book Co.,	65.90	
Western Publishing House,	35.00	
Bradlee Whidden,	.90	\$2,620.16
Jan. 4, 1897. To balance,		2,165.96
		<u>\$4,786.12</u>

## CR.

Jan. 6, 1896. By balance,	\$1,733.63	
Cash receipts as per Treasurer's returns,	3,034.81	
Transfer,	17.68	\$4,786.12

## CR.

Jan. 4, 1897. By balance,	\$2,165.96
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## NEW BEDFORD SCHOOL COMMITTEE.

## JONATHAN BOURNE PRIZE FUND.

## DR.

William E. Hatch,	\$60.00	
Jan. 4, 1897. To balance,	30.00	\$90.00

## CR.

Jan. 6, 1896. By balance,	\$30.00	
Cash receipts as per Treasurer's returns,	60.00	\$90.00

## CR.

Jan. 4, 1897. By balance,	\$30.00
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## NEW BEDFORD WATER WORKS.

## DR.

To expenditures as per drafts of the New Bedford

Water Board,	\$123,870.69	
Jan. 4, 1897. To balance,	29,332.70	<u>\$153,203.39</u>

## CR.

Jan. 6, 1896. By balance,	\$38,383.02	
Appropriation,	12,000.00	
Cash receipts as per Treasurer's returns,	102,820.37	<u>\$153,203.39</u>

## CR.

Jan. 4, 1897. By balance,		<u>\$29,332.70</u>
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## NEW BEDFORD WATER WORKS.

## FURTHER WATER SUPPLY.

## DR.

To expenditures as per drafts of the New Bedford

Water Board,	\$636,367.09	
Jan. 4, 1897. To balance,	554,793.42	<u>\$1,191,160.51</u>

## CR.

Jan. 6, 1896. By balance,	\$1,119,280.02	
Cash receipts as per Treasurer's returns,	71,880.49	<u>\$1,191,160.51</u>

## CR.

Jan. 4, 1897. By balance,		<u>\$554,793.42</u>
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## PARK COMMISSION.

## DR.

Pay rolls,	\$5,556.30
Supplies, etc.:	
George Achelis,	\$2.25
F. T. Akin & Co.,	75.40
E. Anthony & Sons,	3.95
John Bertram,	14.50
A. M. Bigelow, M. D. V.,	4.00
P. Black,	53.40
Blossom Bros.,	12.87
C. O. Brightman,	35.39
William S. Brown,	136.35
C. H. Brownell & Sons,	289.66
W. H. Collins & Co.,	3.15
Denison Bros. Co.,	37.75
DeWolf & Vincent,	107.60
David Duff & Son,	12.83
George A. Eggars,	7.25
William Elliott & Sons,	62.00
General sewers,	104.01
T. J. Gifford & Co.,	38.68
Samuel Gratta,	1.50
Greene & Wood,	71.78
T. M. Hart & Co.,	26.44
Hatch & Co.,	1.00
George E. Hatch,	8.05
N. P. Hayes,	4.16
Thomas Hersom & Co.,	75.75
Highways and streets,	2,492.95
Hillman, Washburn & Co.,	3.41
Charles E. Howland,	2.00
H. S. Hutchinson & Co.,	1.00
P. P. Jenney & Son,	11.75
S. C. Lowe,	6.10
Charles F. Manchester,	9.07
Mercury Publishing Co.,	17.52
John McCullough,	2.28
N. B. Cordage Co.,	26.07
N. B. Gas & Edison Light Co.,	125.00
N. B. Rubber Co.,	36.00
N. Y., N. H. & H. Railroad Co.,	.55
Richard E. Nofftz,	2.50

Old Colony Steamboat Co.,	2.37	
Charles S. Paisler,	.80	
A. W. Perkins & Co.,	3.90	
C. G. & G. A. Randall,	169.15	
H. B. Remington,	64.05	
Geo. D. Richards,	5.20	
I. C. Sherman & Son,	68.07	
F. L. Sowle & Co.,	13.39	
Nat. P. Sowle,	2.53	
E. C. Taber,	155.11	
Wm. R. West,	1.75	
Wilson & Wordell,	27.00	
Wood, Brightman & Co.,	28.72	
C. E. Woodworth,	30.00	4,497.96
		<hr/>
		\$10,054.26
To transfer to balance,		28.91
		<hr/>
		\$10,083.17

## CR.

By appropriation,	\$10,000.00	
Cash receipts as per Treasurer's returns,	83.17	\$10,083.17

## PLATTING SYSTEM.

## DR.

Shedd & Sarle,	\$4,865.61	
To transfer to balance,	223.29	\$5,088.90

## CR.

Jan. 6, 1897. By balance,	\$5,088.90
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## POLICE DEPARTMENT.

## DR.

## Salaries :

George Douglass, chief,	\$1,800.00	
Timothy C. Allen, captain,	1,250.00	
James L. Wilbur, captain,	1,250.00	
Lemuel D. Adams, lieutenant,	1,150.00	
Seth E. Bryant, lieutenant,	1,150.00	
Thomas W. Comstock, lieutenant,	1,150.00	
Thomas Fay, lieutenant,	1,150.00	
Arthur H. Jones, lieutenant,	1,150.00	
Charles L. McBay, lieutenant,	66.33	
Ellery Pierce, lieutenant,	575.14	
Thomas J. Taft, lieutenant,	1,150.00	
Joseph B. Wing, lieutenant,	1,150.00	
Franklin L. Hathaway, inspector,	1,150.00	
John C. Parker, inspector,	1,150.00	
Henry N. West, clerk,	780.00	\$16,071.47

## Pay rolls :

Patrolmen, housekeepers, &c.,	75,591.46	
Special police,	3,754.30	79,345.76

## Supplies :

Driscoll, Church & Hall,	23.88	
D. B. Folger,	44.52	
E. H. Shaw & Co.,	5.90	74.30

## Police signal service :

A. A. Akin,	41.00
Ame_ & Co.,	18.00
D. D. Briggs,	5.02
Wm. Baylies,	47.54
J. A. & W. Bird & Co.,	90.30
Geo. L. Brownell,	31.57
H. E. Chadwick,	12.00
Wm. Cronin & Co.,	114.65
C. F. Cushing,	4.00
Fichtenmeyer & Flynn,	46.78
Fire department,	925.70
N. T. Fuller,	11.13
Chas. A. Gray,	10.91
The E. S. Greeley & Co.,	2.40
Hale Harness and Fire Supply Co.,	27.50
T. M. Hart & Co.,	.18



N. P. Hayes,	5.25	
G. P. Hicks,	160.10	
James A. Jay,	6.00	
C. L. Kenyon,	120.00	
Kern & Wright,	.30	
J. Frank Kirk,	112.13	
Knowles & Co.,	2.83	
Clarence Lowell,	98.91	
N. E. Gamewell Co.,	307.25	
N. Y., N. H. & H. Railroad Co.,	3.72	
Pulsifer, Cook & Co.,	42.68	
C. G. & G. A. Randall,	10.13	
C. R. Sherman & Son,	5.85	
So. Mass. Telephone Co.,	.84	
A. C. Smith,	17.90	
D. J. Sullivan,	.75	
Washburn & Moen Mfg. Co.,	108.00	
C. F. Wing,	23.00	
Wood, Brightman & Co.,	4.70	2,419.02
Lights and fuel :		
F. T. Akin & Co.,	236.01	
Denison Bros. Co.,	281.66	
A. W. Holmes,	10.55	
N. B. Gas & Edison Light Co.,	947.18	
J. Henry Peirce,	2.00	1,477.40
Miscellaneous :		
F. T. Akin & Co., glass and painting,	15.09	
Edgar W. Allen, committing prisoners,	15.37	
Walter Almond, committing prisoners,	3.90	
American Tube Works, brass tube, .	3.49	
E. Anthony & Sons, printing and advertising,	29.59	
James W. Arnett, committing prisoners,	12.15	
Dr. D. C. Ashley, services,	34.50	
Isaac L. Ashley, carriage hire,	3.00	
Babbitt, Wood & Co., steam pipe,	.32	
Ballard & Kirschbaum, telephone index,	1.00	
J. V. Baneroff, sprinkling,	23.00	
Mary Battiste, cleaning lockup,	6.00	
Bliss & Nye, brushes and dusters,	5.03	
Standish Bourne, sleigh,	25.00	
D. D. Briggs, car fares,	1.60	
Geo. L. Briggs, newspapers,	22.40	
Briggs & Lawrence, furniture and repairs,	86.11	
F. S. Brightman, stationery,	28.70	

Olive Brownell, services,	21.16
Thomas F. Callanan, committing prisoners,	17.93
Patrick Cannavan, committing prisoners,	4.02
Catholic Union Pub. Co., advertising,	3.00
Coggeshall, Maxfield & Co., fitting closet,	2.85
W. H. Collins & Co., ruling and binding,	17.75
Robert Cook, use of horse,	24.00
Thomas F. Dean, labor,	23.00
DeWolf & Vincent, screen door,	5.15
Dr. F. G. Dews, services,	2.00
Dr. H. H. Dews, services,	5.00
R. N. B. Doane, photographs,	14.00
A. H. & J. J. Donaghy, laundry,	115.74
Geo. Douglass, keeper of lockup,	99.96
Geo. Douglass, office files,	11.34
Engineering department, maps,	2.50
D. Evans & Co., regilding buttons,	18.50
Evening Journal, advertising,	22.01
N. T. Fuller, making poker,	1.30
Emma K. Gardner, meals for lockup,	130.10
T. J. Gifford & Co., repairs,	20.55
Greene & Wood, lumber,	.57
W. A. Greenough & Co., directories,	15.00
Grand Rapids Wire Mat Co.,	4.00
T. M. Hart & Co., flags and cordage,	15.23
Hatch & Co., express,	1.75
F. L. Hathaway, expenses,	56.30
N. P. Hayes, hose,	9.00
Hillman, Washburn & Co., hardware,	9.25
Dr. C. R. Hunt, services,	3.00
H. S. Hutchinson & Co., stationery,	11.11
James A. Jay, carriage hire,	12.90
Wm. L. Kelley, repairing badges,	2.00
F. A. Kempton Est., rent,	25.00
C. H. & H. A. Lawton, drugs,	5.30
C. W. Lerner & Co., disinfectant,	36.05
L. A. Littlefield, plating badges,	4.13
Ellen L. Macomber, services,	25.50
H. M. Maine, beating carpets,	3.41
S. G. Mandell, fitting lock,	1.00
Wm. Maxfield & Son,	1.30
C. L. McBay, committing prisoners,	20.81
Mercury Pub. Co., printing and advertising,	117.82
Moynan & Co., sheets and towels,	11.48
N. B. Ice Co., ice,	35.99

N. B. Printing Co., show cards,	3.25	
N. B. Rubber Co., blanket,	4.83	
Norfolk Mfg. Co., soap powder,	13.35	
Oak Hall Clothing Co., material for uniforms,	32.15	
John C. Parker, expenses,	21.85	
Edward M. Peirce, horses and equipments,	41.00	
S. F. Perry & Son, carriages,	5.00	
Geo. W. Pinkham, committing prisoners,	9.55	
Dr. Wm. G. Potter, services,	4.00	
Edward G. Reynolds, carriages,	5.00	
Geo. D. Richards, snow shovel,	.35	
Wm. D. Richards, carriages,	14.00	
Wm. E. Roscoe, committing prisoners,	21.90	
W. F. Salter, pens,	4.50	
C. R. Sherman & Son, keys and fitting,	2.35	
Hoyland Smith, repairs,	.60	
So. Mass. Tel. Co., rents,	428.00	
So. Mass. Tel. Co., tolls,	64.55	
F. L. Sowle & Co., toilet paper,	11.50	
Dr. J. P. St. Germain, services,	3.00	
Harry D. Stow, committing prisoners,	11.70	
Timothy Sullivan, committing prisoners,	24.68	
M. C. Swift & Son, braid,	3.91	
Dr. M. V. Sylvia, services,	5.00	
Robert W. Taber, stationery,	12.39	
Taylor & Sawtelle, floor brush,	2.25	
W. C. Underwood, committing prisoners,	13.21	
Union Boot and Shoe Co.,	5.00	
Viall & Cook, rent of women's lockup,	216.70	
Western Union Telegraph Co.,	24.75	
Thos. H. Wilson, committing prisoners,	7.27	
Chas. F. Wing, mat and linoleum,	28.81	
James A. Wixon, committing prisoners,	6.69	
Emma Young, meals for lockup,	60.05	2,419.15
		<u>\$101,807.10</u>

## CR.

By appropriation,	\$94,000.00	
Transfer from unappropriated funds,	7,000.00	
Transfer to balance,	807.10	\$101,807.10

## POOR DEPARTMENT.

## Dr.

## Alms-house :

Alms-house help,	\$3,630.66
F. T. Akin & Co.,	590.41
E. Anthony & Sons,	6.00
Dr. D. C. Ashley,	12.00
Ashley & Peirce,	25.54
Wm. Baylies,	481.35
Bliss & Nye,	28.46
Chas. M. Borden,	88.51
Geo. B. Borden,	175.50
H. T. Borden,	7.50
Boston Beef Co.,	4.00
C. T. Bosworth & Co.,	73.88
Briggs & Lawrence,	2.75
E. C. Brownell & Co.,	1.00
Brownell, Ashley & Co.,	45.20
Centennial American Tea Co.,	63.26
Chadwick & Co.,	11.25
E. E. Chadwick,	1,027.00
T. W. Chace & Co.,	13.43
E. T. Chapman,	2.00
Childs & Peckham,	59.50
Chas. H. Church,	39.10
Wm. N. Church,	17.00
Church & Hammond,	41.98
Patrick Connor,	17.00
D. T. Cornell,	5.00
Nicholas Crapo,	5.00
Wm. Cronin,	9.85
C. S. & B. Cummings,	56.08
J. Davis & Co.,	119.16
Davis & Hatch Spice Co.,	153.29
Lafayette Deane,	8.00
Denison Bros. Co.,	503.10
Denison, Plummer Co.,	242.88
P. Devoll & Son,	31.90
DeWolf & Vincent,	10.57
Thomas Donaghy,	139.18
F. M. Douglass,	73.88
Driscoll, Church & Hall,	943.64
Geo. E. Faisneau,	133.92

D. I	6.91
Gree	87.90
Chas	64.37
Jona.	6.51
T. M.	2.44
Haske.	66.53
N. P. I	25.82
Thomas	1.00
Hillman	36.57
Geo. S. I	22.50
H. S. Hu	1.55
A. H. Jac	7.00
Wm. L. K	4.90
C. L. Keny	215.00
Kirby & Hi	22.50
Knowles & J.,	72.28
C. H. & H. A. Lawton,	22.40
C. W. Lerner & Co.,	7.00
Clarence Lowell,	133.95
Fredk. Macy,	13.40
J. Roland Macy,	86.68
Walter C. Macy,	130.00
William J. Macy,	6.97
Mercury Pub. Co.,	6.00
Ernest F. McCarty,	13.44
John McCullough,	96.25
Miller & Hook,	8.11
Moore & Dick,	41.65
Moynan & Co.,	15.87
N. B. Fire Department,	415.02
N. B. Rubber Co.,	3.00
N. Y. Biscuit Co.,	1.02
John Notter,	118.12
James H. Nuttall,	87.77
Charles S. Paisler,	13.65
E. H. Pierce,	1.57
Martin L. Pierce,	140.65
Samuel H. Perry,	1.60
Philadelphia & Reading Coal Co.,	8.50
G. & L. Poisson,	103.94
J. & L. Poisson,	23.45
Wm. F. Potter & Co.,	559.16
Geo. D. Richards,	14.13
S. P. Richmond & Co.,	22.29
A. S. Rounselle & Co.,	7.53
Sanders & Barrows Clothing Co.,	61.50





C. H. Brownell & Sons,	290.00
David Bromley,	40.00
Thomas Burgess & Son,	258.50
Wm. Burke,	115.00
Central Union Association,	297.45
Wm. H. Chappell,	42.00
C. W. Chase,	32.00
Joseph Chausse,	79.50
Robert Clarke,	92.00
Henry W. Cole & Co.,	41.00
John H. Cook,	20.00
C. S. & B. Cummings,	76.50
Cushman Bros.,	9.50
F. A. Dammon,	275.21
Dudley Davenport,	149.50
Davidson Bros.,	9.00
John Dick,	52.00
Timothy Downey,	4.00
D. F. Driscoll,	1.50
J. E. Dwight,	3.00
Frank Enos,	7.50
L. C. Fish,	65.00
D. B. Folger,	186.28
E. M. Frasier,	80.00
F. W. Francis,	3.50
J. B. Francis,	70.00
Garant Bros.,	18.00
D. H. Gauthier,	11.00
R. Genensky,	4.00
Gray's Market,	18.00
Lyman B. Gray,	23.00
John Greenwood,	1.50
Charles J. Griffin,	7.50
H. S. Hammond,	96.00
P. R. Harrity,	22.00
James Haworth,	87.28
George Hill,	21.00
William Hindle,	1.00
B. G. Howland,	2.00
George Hunter,	240.50
Industrial Co-operative Association,	75.50
John Jason,	6.00
Walter F. Jenney,	24.00
Wm. S. Jenney,	29.50
Manuel Joseph,	1.50

D. H. Judd,	3.00
Joseph La France,	4.50
Joseph Lagasse,	66.00
Thomas Lawrence,	4.50
A. M. Lawton,	12.00
R. Laycock,	6.00
Clark Leavitt,	43.50
Joseph Lord,	11.00
John H. Lowe,	38.00
Wm. E. Luce,	20.50
Wm. T. Luce,	114.50
Wm. T. Luce, Jr.,	13.50
Geo. W. Macomber,	10.00
Joseph Matieux,	6.00
McDonnell Bros.,	32.00
Michael McDonnell,	4.00
L. E. Milliken,	112.00
L. E. Milliken & Co.,	107.50
Thomas J. Murphy,	53.50
John Notter,	58.50
Alfred Nye,	82.00
Wm. Ogden,	12.00
Alfred Owen,	51.50
John H. Patterson,	1.00
A. E. Perry & Co.,	9.00
Charles F. Perry,	347.50
Frank Perry,	16.50
Joseph Perry,	18.00
Manuel Perry,	6.00
Phillipe Phenix,	9.00
Andrew J. Pike,	13.00
Pilon & Plante,	13.50
E. L. Potter,	104.00
Quincy Market,	80.50
Wm. A. Robbins,	3.00
Sauve & Malanin,	4.50
E. S. Silvester,	6.00
Wm. Simister,	70.00
Simister & Mills,	34.00
Caleb Slade,	59.00
Isaac Small,	17.00
Geo. B. Stafford,	63.00
A. G. Stanton,	75.00
M. A. Sullivan,	4.50
John Sweeney,	4.50

O. R. Taber & Sons,	108.50	
Wilson M. Tripp,	14.00	
F. H. Turgeon,	3.00	
Franklin H. Vinal,	144.00	
James Wood,	33.00	
Fr. Zimmerman,	41.00	6,830.97

## Lunatic hospitals :

Commonwealth of Mass.,	\$630.19	
Medfield Insane Asylum,	297.60	
Taunton Lunatic Hospital,	8,596.90	
Westboro Insane Hospital,	465.69	
Worcester Insane Asylum,	169.92	
Worcester Lunatic Hospital,	169.92	10,330.22

## Cities and towns :

Boston,	\$193.57	
Bourne,	2.00	
Cambridge,	1.78	
Cottage City,	50.82	
Dartmouth,	63.72	
Everett,	6.00	
Fairhaven,	3.00	
Fall River,	103.65	
Falmouth,	206.90	
Harwich,	96.00	
Middleboro,	18.75	
Nantucket,	81.25	
North Attleboro,	77.00	
Wareham,	26.25	
Whitman,	72.25	
Worcester,	10.52	1,013.46

## Physicians and medicine :

H. L. Stevens, M. D.,	\$1,593.42	
E. E. Waite, M. D.,	26.58	1,620.00

## Burials :

Robert G. Bennett,	\$58.80	
A. Desautels,	55.00	
J. B. Jean,	202.00	
A. P. Lagasse,	26.50	
Moriarty Bros.,	44.00	
T. J. Murphy,	31.00	
John Rogers,	206.50	
J. D. Sullivan,	8.00	
W. C. Vaughan, Jr.,	119.00	

Joseph S. Williams,	282.00	
E. T. Wilson,	116.00	1,148.80
Wood and coal yard :		
Stephen P. Coffin,	\$366.00	
Henry W. Cushman,	386.86	
Denison Bros. Co.,	580.50	
P. P. Jenney & Son,	21.20	
Street department,	307.50	
B. Sturtevant,	2.20	1,664.26
Miscellaneous :		
E. Anthony & Sons,	\$9.20	
Ashley & Peirce,	2.00	
Ella F. Bucklyn,	700.00	
Briggs & Lawrence,	31.25	
City Treasurer,	2,094.70	
W. H. Collins & Co.,	8.80	
P. Devoll & Son,	8.00	
Evening Journal,	3.50	
W. A. Greenough & Co.,	2.50	
E. T. Harris,	115.25	
Haskell & Tripp,	.75	
Hutchinson & Co.,	5.05	
Kirby & Hicks,	1.50	
Library Bureau,	2.00	
Mercury Pub. Co.,	38.88	
Moynan & Co.,	12.69	
N. B. Gas & Edison Light Co.,	.80	
Charles S. Paisler,	150.00	
S. F. Perry & Son,	16.00	
Samuel H. Perry,	.25	
C. A. B. Peterson,	150.00	
C. A. B. Peterson, M. D.,	65.00	
Poisson Bros.,	7.03	
A. M. Rodgers,	25.00	
Sanders & Barrows,	4.50	
James E. Stanton,	850.00	
C. R. Sherman & Son,	.75	
So. Mass. Telephone Co.,	100.60	
A. R. Washburn,	15.50	
Chas. F. Wing,	3.64	
A. A. Wood,	700.00	
Robert W. Taber,		

To transfer to balance,

## CR.

By appropriation,	\$35,000.00	
Transfer from unappropriated funds,	5,500.00	\$40,500.00

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## PRINTING, BINDING AND STATIONERY.

## DR.

F. T. Akin & Co.,	\$ .30	
E. Anthony & Sons,	939.23	
A. R. Andrews,	.60	
Wm. Bamford,	.75	
Blackbird Pen Co.,	3.00	
F. S. Brightman,	271.50	
T. S. Buck,	3.99	
W. H. Burbank & Co.,	9.87	
Carter's Ink Co.,	13.50	
Chas. C. Chamberlain,	61.50	
W. H. Collins & Co.,	863.77	
Evening Journal,	2.35	
Greenough, Adams & Cushing,	27.08	
H. S. Hutchinson & Co.,	189.48	
Library Bureau,	30.15	
Lyon Platinum Pen Co.,	6.00	
Mercury Pub. Co.,	2,619.47	
A. E. Martell & Co.,	3.50	
Morgan, Crossman & Co.,	2.45	
N. B. Printing Co.,	8.25	
Wm. F. Salter,	8.65	
Mortimer Searles,	.75	
C. R. Sherman & Son,	14.25	
Sherman & Habicht,	.75	
Robert W. Taber,	61.54	\$5,142.68

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## CR.

By appropriation,	\$5,000.00	
Transfer to balance,	142.68	\$5,142.68

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## PUBLIC SCHOOLS, INCIDENTALS.

## DR.

## Salaries :

William E. Hatch, supt. and secretary,	\$3,000.00	
Emma M. Almy, clerk,	850.00	
Mary C. Potter, clerk,	441.35	
Sarah D. Ottiwell, clerk,	159.50	
Jennie E. Gardner, clerk,	60.00	\$4,510.85

## Pay rolls :

Janitors and Truant Officers,	15,206.52
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## Books and stationery :

American Book Co.,	\$340.41
Boston School Supply Co.,	73.28
T. H. Castor & Co.,	24.01
Chemical Paper Co.,	499.56
Eagle Pencil Co.,	197.56
Eimer & Amend,	88.73
Estabrook Steel Pen Co.,	22.50
Franklin Educational Co.,	9.37
Frost & Adams Co.,	32.51
Joseph Gillott & Sons,	140.89
Ginn & Company,	913.48
J. L. Hammett Co.,	561.00
Harper Bros.,	40.10
W. E. Hatch,	18.75
D. C. Heath & Co.,	179.53
Holden Patent Book Cover Co.,	330.14
H. S. Hutchinson & Co.,	502.38
Leach, Shewell & Sanborn,	53.75
Maynard, Merrill & Co.,	307.03
Geo. S. Perry & Co.,	631.84
Prang Educational Co.,	529.62
G. P. Putnam's Sons,	7.50
Geo. H. Richter & Co.,	31.98
Riverside Paper Co.,	588.40
Chas. Scribner's Sons,	37.57
Silver, Burdette & Co.,	6.00
Smith Premier Type Writer Co.,	7.90
Robert W. Taber,	117.83
Thompson, Brown & Co.,	106.25
Thorp & Martin Co.,	5.87



Wm. Ware & Co.,	578.59	
Williams & Rogers,	169.20	
Wm. Wood & Co.,	153.00	7,306.53

## Repairs of schoolhouses :

F. T. Akin & Co.,	\$ .50
R. T. Durfey,	78.58
Luke Kilcoin,	50.44
Kern & Wright,	1.13
John J. Meaney,	1.94
S. S. Paine & Bro.,	6.00
R. A. Sherman & Son,	102.88
Nathan Wheaton,	204. <sup>70</sup>

## Repairs of heating apparatus :

Babbitt, Wood & Co.,
T. W. Chace & Co.,
Geo. A. Cobb,
D. A. Harrington & Co.,
Geo. E. Hatch,
Lewis & Padelford,
S. C. Lowe,
N. B. Boiler & Ma
E. F. Penney,
A. A. Sanbor
J. Welch,
D. W. V
Woc

Lic<sup>t</sup>

Boston Branch Grocery,	.24
Anna W. Braley,	1.64
C. H. Brownell & Sons,	124.97
Clark's Fish Market,	9.48
Wm. J. Cochrane,	1.83
John Corish,	3.20
C. S. & B. Cummings,	1.50
Geo. Delano's Sons,	4.55
DeWolf & Vincent,	41.56
F. M. Douglass,	24.50
Driscoll, Church & Hall,	4.25
Geo. E. Faisneau,	13.35
D. B. Folger,	1.10
C. A. Galligan,	12.30
Haskell & Tripp,	2.04
Thos. Hersom & Co.,	35.60
Hillman, Washburn & Co.,	80.27
Edwin Jones,	1.76
Edward R. King,	1.99
C. H. & H. A. Lawton,	2.58
S. C. Lowe,	7.45
J. Roland Macy,	1.56
Mercurey Pub. Co.,	358.57
Wm. T. Moncrief,	3.40
Moore & Dick,	.74
Moynan & Co.,	7.82
Pairpoint Mfg. Co.,	2.50
Wm. A. Pease,	7.95
Geo. S. Perry & Co.,	103.65
E. H. Pierce,	1.45
F. O. Pollock,	24.69
W. F. Raymond,	.72
Geo. D. Richards,	182.92
E. S. Ritchie & Son,	6.00
C. R. Sherman & Son,	4.60
I. H. Shurtleff,	1.40
Smith-Carleton Iron Co.,	.78
W. R. Smith,	4.50
F. L. Sowle & Co.,	53.97
Nat. P. Sowle,	106.37
A. G. Stanton,	.92
Sullery Bros.,	6.00
Taber Art Co.,	10.35
Taylor & Sawtelle,	331.09
W. J. Tilton,	12.31

Leroy G. Tripp,	9.90	
Wm. R. West,	.50	
L. H. White,	2.44	
E. B. Whiting & Co.,	.50	
James A. Wood,	15.32	1,857.72

## Miscellaneous :

Cary F. Abbott, ash cans,	\$4.95
F. T. Akin & Co., labor supts. office,	8.61
Asa L. H. Allen, moulding and hooks,	14.04
Edwin Allen, express,	2.55
Almy & Hitch, flag, repairing and fixtures,	25.87
American Bank Note Co., diplomas,	65.00
E. Anthony & Sons, advertising,	17.96
Robert Arnett, Jr., washing towels,	8.40
Isaac L. Ashley, carriage hire,	10.00
Mary I. Ashley, cleaning building,	11.00
Geo. Bailey, labor,	135.75
E. E. Baudoin, services,	42.88
John B. Baylies, book shelves,	4.00
J. D. Blanchard & Co., rent,	160.00
Bliss & Nye, stone jar,	.65
Bobrick School Furniture Co., furniture,	120.75
Briggs & Lawrence, furniture,	101.79
C. O. Brightman, moving desk,	1.58
Brownell & Co., repairs of furniture,	13.45
Emma D. Caswell, typewriter ribbon,	1.00
Chas. H. Chase, transferring pupils,	22.95
Phylander Chase, washing towels,	9.36
City Coal Co., freight and cartage,	23.03
W. J. Cochrane, washing and cleaning,	19.34
W. H. Collins & Co., binding,	38.45
Cook & Smith, rent,	283.98
Samuel H. Cook & Co., insurance,	65.61
Geo. K. Dammon, washing towels,	25.78
F. H. Dean, reslating blackboards,	7.20
D. H. Demoranville, freight and cartage,	1.07
H. G. Dennis, rent,	408.34
Robert B. Devoll, services,	3.75
Thomas Donaghy, hose,	3.50
Charles Ellis, furniture,	12.00
Evening Journal, advertising,	3.18
Loum H. Faunce, repairing desks,	114.15
First Primitive Methodist Church, rent,	270.00
N. E. Ford, use of chairs,	14.00

C. A. Galligan, furniture,	24.63
Edgar H. Gammons, cleaning vaults,	11.00
C. A. Gray, freight and cartage,	103.82
Thos. M. Hart & Co., blocks and screw eyes,	3.96
Haskell & Tripp, ribbon and towels,	21.65
A. B. Hathaway, making class mottoes,	10.00
Geo. B. Hathaway, filling diplomas,	25.00
Hatch & Co., express,	64.35
W. E. Hatch, office expenses,	10.00
James T. Heron, washing towels,	10.39
High School Cadets, rent,	10.00
Mary R. Hinckley, filling diplomas,	1.75
Thomas Holway, labor,	2.75
P. P. Jenney & Sons, sharpening lawn mowers,	2.55
Wm. A. Jennings, teaming,	219.77
Edwin Jones, washing towels,	1.05
Chas. F. Keen, grinding tools and hanging maps,	10.20
Wm. L. Kelley, repairing clock,	1.25
Kern & Wright, gold bronze,	3.48
Knowles & Co., towels,	.76
John H. Lowe, rent,	325.00
Hiram T. Lumbert, washing towels,	26.07
John Lumbert, washing towels,	4.66
H. M. Maine, beating carpets,	16.90
S. G. Mandell, keys and batteries,	43.95
John Marble, washing towels,	8.86
D. A. McKenzie & Co., stock and labor on maps,	30.12
Mercury Pub. Co., advertising,	15.54
Chas. S. Moore, expenses,	11.83
N. B. City Guards, rent,	27.00
N. B. Ice Co., ice,	3.35
N. B. Novelty & Rattan Co., seating chairs,	2.80
Odd Fellows Building Assn., use of chairs,	3.50
Padelford & Besse, bookcase and blackboards,	207.50
Edward M. Peirce, transferring pupils,	458.50
Geo. S. Perry & Co., furniture,	289.72
S. F. Perry & Son, carriage hire,	20.50
Henry T. Phillips, repairing furniture,	162.50
E. H. Pierce, hose and naphthol,	67.50
A. P. Pope, blackboards,	105.00
F. O. Pollock, washing towels,	39.42
Philip S. Poole, labor,	3.00
E. S. Ritchie & Son, repairing weights,	5.75
W. L. Sayer, examining essays,	20.00
Mortimer Searles, wood cut and stamp,	2.75

S. H. Shepherd, car fare,	1.40	
C. R. Sherman & Son, batteries, zinc and keys,	21.92	
R. A. Sherman & Son, bookcase and fitting desks,	187.63	
Joseph S. Sisson, rent,	300.00	
F. R. Slocum, furniture,	2.00	
A. C. Smith, fitting bells,	5.00	
Allen Smith, Jr., carriage hire,	3.00	
So. Mass. Telephone Co., rent for telephone,	163.50	
So. Primitive Methodist Church, rent,	180.00	
F. L. Sowle & Co., glue and labor on door check,	2.06	
P. R. Swift, drawing boards,	5.32	
M. W. Swift, labor,	3.50	
D. J. Sullivan, clocks and repairing,	31.25	
T. S. Swift, carriage hire,	1.00	
John Sylvia, teaming,	10.15	
Manuel Sylvia, teaming,	6.00	
E. S. Tallman, washing towels,	8.40	
F. B. Wade, services,	400.00	
J. B. Wade, jardinieres,	.50	
Wm. R. West, repairing desks and blackboards,	34.95	
A. P. White, repairing desks,	16.00	
S. S. Wilbur, cleaning vaults,	9.33	
Edward H. Wilkie, labor,	2.50	
C. F. Wing, furniture,	444.89	
James A. Wood, washing towels,	8.93	6,365.23
		<u>\$44,424.34</u>
To transfer to balance,		576.51
		<u>\$45,000.85</u>

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By appropriation,	\$40,000.00	
Special appropriation,	5,000.00	
Cash receipts as per Treasurer's report,	.85	<u>\$45,000.85</u>

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## PUBLIC SCHOOLS, PAY OF TEACHERS.

DR.

## HIGH SCHOOL.

Charles S. Moore,	\$2,736.25	
Charles T. Bonney, Jr.,	1,600.00	
Warren R. Smith,	900.00	
Charles R. Allen,	640.00	
William K. Norton,	600.00	
Byrd A. Peters,	372.00	
Sarah D. Ottiwell,	540.00	
Elizabeth P. Briggs,	846.00	
Lydia J. Cranston,	900.00	
Mary E. Austin,	360.00	
Lucretia N. Smith,	900.00	
Emma K. Shaw,	891.00	
Helen L. Hadley,	898.00	
Mabel W. Cleveland,	890.20	
Katharine M. Crabtree,	800.00	
Edmond E. Baudoin,	300.00	\$14,173.45

## GRAMMAR SCHOOLS.

## Fifth Street :

Allen F. Wood,	\$1,900.00	
Lydia A. Macreading,	675.00	
Emma B. McCullough,	200.44	
Mary E. Allen,	600.00	
Sarah E. Stoddard,	596.00	
Emma A. McAfee,	598.00	
Mary W. Leymunion,	582.00	
Annie C. Hart,	600.00	
Mary A. Kane,	600.00	
Grace L. Carver,	600.00	
Lottie M. Allen,	433.75	
N. Emma Slack,	472.50	7,857.69

## Middle Street :

George H. Tripp,	\$1,900.00	
Lucy B. Fish,	675.00	
Lucy F. Winchester,	673.31	
Katharine Commerford,	245.00	
Agnes J. Dunlap,	600.00	



Clara S. Vincent,	600.00	
Etta M. Abbott,	600.00	
Helen McCoy,	600.00	
Lizzie E. Omey,	600.00	
Julia C. Gifford,	568.50	
Willetta B. Nickerson,	330.00	
Elizabeth D. Hicks,	202.52	
Anastasia O'Keefe,	240.00	7,834.33

## Parker Street :

Nelson Freeman,	\$1,900.00	
Anna L. Jennings,	655.00	
Julia F. Coombs,	393.88	
Helen Ring,	230.89	
Martha A. Hemmenway,	600.00	
Daisy M. Butts,	596.00	
Mary L. Pettey,	600.00	
Mariana N. Richmond,	598.50	
Elizabeth B. Brightman,	600.00	
Emily A. Delano,	597.00	
Susan H. Lane,	540.00	
Emma D. Larrabee,	600.00	
Regina M. Paul,	600.00	
Clara M. Woodward,	600.00	
Alice A. Richardson,	485.50	
Angenette Chace,	585.00	
Janet Hunter,	195.00	
Susan Gifford,	178.87	10,555.64

## Thompson Street :

Evangeline Hathaway,	\$360.00	
Alice C. Munsey,	838.50	
Mary A. Macy,	588.00	
Cora B. Cleveland,	595.50	
Lizzie M. Briggs,	440.00	
Ethel S. Parker,	450.00	
Charlotte M. Murkland,	189.00	
Annie L. Murkland,	170.00	3,631.00

## PRIMARY SCHOOLS.

## Acushnet Avenue :

Jane C. Thompson,	\$744.38
Hattie L. Finlan,	550.00
Carrie S. Silva,	550.00
Caroline O. Pierce,	330.00

Nellie A. Walker,	550.00	
Margaret H. Holmes,	550.00	
Sarah A. Winslow,	543.60	
Sarah E. Kirwin,	550.00	
Julia M. Pilling,	520.00	
Harriet L. Cornell,	504.80	
Lida J. Brightman,	543.13	
Mary C. Barstow,	220.00	6,155.91

## I. W. Benjamin :

Jane E. Gilmore,	\$796.00	
Susan M. Tompkins,	550.00	
Annie C. O'Connor,	549.20	
Nellie W. Davis,	530.80	
Alice A. Taylor,	550.00	
Mabel Bennett,	550.00	
Eleanor V. Tripp,	546.80	
Dora A. DeWolf,	505.40	
Julia A. Hunt,	467.60	
Emma L. Gartland,	493.75	
Marion H. Swasey,	443.50	
Sophie T. Anthony,	422.50	
Lila D. Haney,	413.70	6,819.25

## Cedar Grove Street :

Maria B. Clark,	\$872.81	
Louise M. Newhall,	550.00	
Annie G. Brawley,	550.00	
Edith K. Weeden,	540.40	
Isabella F. Winslow,	550.00	
Kate Sweet,	550.00	
Alice P. Winchester,	535.50	
Ruth E. Pease,	511.10	
A. Gertrude Wheaton,	520.00	
Julia W. Corish,	470.00	
Laura C. McCabe,	418.26	
Gillian M. Gordon,	404.20	
Fannie M. Clark,	238.40	
Sara Peckham,	422.50	
Minnie C. Ritter,	446.20	
Harriet A. Taylor,	414.10	
Sylvia W. Paulding,	155.20	8,148.67

## Cedar Street :

Annie S. Homer,	\$424.60	
Abby D. Whitney,	540.15	

Bessie P. Peirce,	548.63	
Annie L. Edwards,	550.00	
Mabel L. Hathaway,	540.40	
Ruth M. Tripp,	470.00	3,073.78

## Clark Street :

Elizabeth P. Spooner,	\$667.01	
Lucy S. Leach,	548.40	
Isabella Luscomb,	550.00	
Carrie L. Chapman,	272.25	
Esther Paul,	410.00	
Lucia E. Bliss,	422.50	
Ruth A. Wilde,	36.20	
Martha D. Shute,	143.00	
Ella W. Keene,	172.80	
Mary E. Kinney,	125.00	3,347.16

## Cannonville :

Adelaide J. McFarlin,	\$550.00	
Florence A. Poole,	459.40	1,009.40

## Dartmouth Street :

Isadore F. Eldridge	\$705.80	
M. Eva Schwall,	550.00	
Grace H. Potter,	548.63	
Annie F. Smith,	548.63	
Edith M. B. Taber	550.00	
Nellie H. Cook,	548.63	
Mary C. Barstow,	330.00	
Sarah E. Slade,	430.20	
Annie L. Burbank	40.00	
Sara H. Kelley,	220.00	
Carrie W. Bliss,	345.85	4,817.74

## Thomas A. Greene :

Sarah H. Cranston,	\$674.33	
Eliza H. Sanford,	543.13	
Sarah E. Sears,	549.20	
Lillie C. Tillinghast,	548.51	
Annie L. Macreading,	548.40	
Ruth E. Howland,	409.70	
Caroline E. Bonney,	482.50	3,755.77

## S. A. Howland :

Carrie E. Footman,	\$612.52	
Amelia Lincoln,	550.00	

Mary J. Graham,	550.00	
Helen J. Kirk,	475.75	
Ruth A. Wilde,	314.00	2,502.27
Merrimac Street :		
Harriet S. Damon,	\$650.00	
Julia A. Ellis,	550.00	
Addie West,	401.50	
Anna I. Dexter,	540.40	
Ella M. Robinson,	550.00	
Anna H. Doolittle,	203.50	
M. Evelyn Holoway,	68.75	
Ella W. Keene,	40.00	
Helen G. Malley,	245.20	3,249.35
Maxfield Street :		
Elizabeth Bennett,	\$598.40	
Annie E. Pearce,	550.00	
Clara C. M. Gage,	550.00	
Mary E. Pasho,	550.00	2,248.40
Thompson Street :		
Annie L. Brownell,	\$495.00	
Alice J. Lawrence,	542.45	
Angela F. Bowie,	437.40	
Mary L. Rogers,	336.00	
Helen G. Malley,	50.00	1,860.85

## HARRINGTON NORMAL AND TRAINING SCHOOL.

Josephine B. Stuart,	\$712.50
Anna W. Braley,	813.00
Mary E. Trask,	332.75
Carolyn D. Wood,	760.00
Belle Almy,	544.06
Fannie M. Spooner,	515.70
Kate Moore,	508.00
Grace W. Russell,	469.20
Elizabeth D. Hicks,	244.98
Mary L. Rogers,	16.00
Ruth A. Wilde,	14.40
Ella W. Keene,	50.80
Carrie W. Bliss,	16.00
Grace B. Ashley,	77.20
Susan Gifford,	76.20
Bertha C. Hathaway,	84.10

Annie L. Murkland,	73.40	
Sylvia W. Paulding,	83.40	
Harriet A. Taylor,	2.00	
Annie L. Burbank,	80.00	
Helen K. Covell,	58.80	
Agnes D. Allen,	59.60	
Mary V. Perry,	58.80	
Florence M. Anthony,	58.80	
Mary P. Brownell,	46.00	
Cecilia A. Deane,	55.60	5,811.29

## UNGRADED SCHOOLS.

## North Mill:

Emma R. Wentworth,	\$647.90	
Mary L. Hillman,	431.38	1,079.28

## South Mill:

Lucy J. Remington,	\$678.00	
Ruby M. Tripp,	513.88	1,191.88

## Acushnet:

Charlotte C. Carr,	\$696.00	
Bell B. Wheeler,	598.00	
Harriet N. Hyatt,	512.00	1,806.00

## Clark's Point:

Mary E. McAuliffe,	\$570.00	
Clara J. Schwartz,	110.00	
Carrie A. Shaw,	12.00	
Ruth A. Wilde,	2.00	694.00

## North School:

Mary I. Ashley,	\$600.00	
Mary G. Fuller,	420.00	1,020.00

## Plainville:

Grace B. Ashley,	\$170.00	170.00
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## Rockdale:

Lillian T. Thomas,	\$541.30	
Alice P. Terry,	199.00	740.30

## SPECIAL TEACHERS.

F. H. Butterfield,	\$1,900.00
Mary W. Gilbert,	1,300.00
Edwin R. King,	1,280.00

S. Agnes Donham,	597.00	
Carrie H. Richmond,	600.00	
Gertrude H. Leonard,	525.00	
Eliza A. Smalley,	240.17	
Harriet Phillips,	199.50	6,641.67

## EVENING SCHOOLS.

## Cedar Grove Street :

Nelson Freeman,	\$140.00	
Helen McCoy,	60.00	
Annie G. Brawley,	60.00	
Nannie P. Slocum,	60.00	
Lillie McAfee,	24.00	
Mary R. Hinckley,	60.00	
Jennie Gardner,	24.00	
Abby R. Johnson,	58.50	
A. Gertrude Wheaton,	24.00	
Isabella F. Winslow,	60.00	
Susan E. R. Butts,	60.00	
Sarah E. Slade,	24.00	
Laura C. McCabe,	24.00	
Grace B. Ashley,	24.00	
Mina M. Greene,	15.00	
Ruth M. Tripp,	58.50	
Grace Dillingham,	10.50	
Louise M. Newhall,	36.00	
Helen G. Malley,	36.00	
Alice A. Taylor,	19.50	
Isadore B. Lee,	36.00	
Isabel Horr,	36.00	
Myra A. Tinkham,	27.00	
Anastasia O'Keefe,	18.00	995.00

## Fifth Street :

George H. Tripp,	\$140.00	
Nellie H. Cook,	60.00	
Julia C. Gifford,	60.00	
Lizzie M. Briggs,	36.00	
Lillie C. Tillinghast,	60.00	
Catharine T. Johnson,	57.00	
Ida F. McAfee,	24.00	
Mary J. Graham,	60.00	
Ruth E. Howland,	25.50	
Marion H. Swasey,	58.50	
Sarah E. Stoddard,	60.00	



Kate Moore,	34.50	
Mary E. Allen,	24.00	
Sara Peckham,	60.00	
Grace L. Carver,	24.00	
Eudora Lawrence,	24.00	
Belle Almy,	36.00	
Annie C. Hart,	36.00	
Etta M. Abbott,	36.00	
Clara S. Vincent,	1.50	917.00

## Merrimac Street :

Mary A. Kane,	\$120.00	
Harriet L. Cornell,	60.00	
Florence A. Poole,	24.00	
Mary A. Livesey,	7.50	
Ruth E. Pease,	24.00	
Susan Wilcox,	12.00	
Sarah E. Kirwin,	60.00	
Margaret H. Holmes,	24.00	
Dora A. DeWolf,	18.00	
Mary P. Brownell,	3.00	
Jennie A. Murphy,	31.50	
Mabel L. Hathaway,	33.00	
Ella W. Keene,	34.50	451.50

## Parker Street :

Emma R. Wentworth,	\$48.00	
Agnes J. Dunlap,	72.00	
Mary F. Wilde,	24.00	
Emma D. Larrabee,	60.00	
Regina M. Paul,	48.00	
Esther W. Paul,	45.00	
Julia W. Corish,	60.00	
Sara L. Tallman,	60.00	417.00

## Thompson Street :

Joseph P. Kennedy,	\$140.00	
Janet Hunter,	60.00	
Kate K. Whelden,	60.00	
Belle Almy,	24.00	
Emma L. Gartland,	60.00	
Annie F. Smith,	60.00	
Annie L. Brownell,	48.00	
Clara M. Woodward,	60.00	
Eloise A. Hafford,	24.00	
Mary L. Rogers,	60.00	

Mary V. Perry,	60.00	
Cecilia Deane,	60.00	
Caroline E. Bonney,	24.00	
Nellie E. Gibson,	36.00	
Hannah V. Hathaway,	36.00	
Alice A. Taylor,	16.50	828.50

## Drawing :

George H. Nye,	\$180.00	
Katharine M. Crabtree,	117.00	
Oliver Gardner,	120.00	
Norman Paul,	40.00	
Franklin E. Smith,	56.00	513 00

## SUBSTITUTES.

Agnes D. Allen,	\$34.40
Grace B. Ashley,	17.60
Harriet S. Ashley,	8.00
Florence Anthony,	1.12
Mary P. Brownell,	32.80
Helen K. Covell,	34.00
Lucy S. Cushing,	10.80
Grace Dillingham,	18.40
Helen C. Freeman,	14.00
Susan Gifford,	41.20
Janet Hunter,	104.00
Lena B. Hamblin,	59.12
Bertha C. Hathaway,	164.80
Mary E. Haney,	16.00
Eliza G. M. Jenney,	53.00
Carolyn S. Jones,	8.00
Sara L. Kelley,	.40
Ella W. Keene,	24.20
Mary A. Livesey,	165.00
Eudora Lawrence,	16.00
Charlotte M. Murkland,	356.00
Jennie A. Murphy,	5.12
Annie L. Murkland,	9.60
Helen G. Malley,	4.80
Mary V. Perry,	16.00
Sylvia W. Paulding,	17.60
Mary L. Rogers,	16.00
Nannie P. Slocum,	32.00

Clara J. Wetherel,	64.00	
Susan Wilcox,	45.00	1,388.96
		<u>\$115,706.04</u>
To transfer to balance,		1,192.96
		<u>\$116,899.00</u>

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CR.

By appropriation,	<u>\$116,899.00</u>
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## PUBLIC SCHOOLS, REPAIRS OF BUILDINGS.

DR.

### Acushnet:

Chas. F. Chase,	\$14.30	
Geo. A. Cobb,	8.52	
Geo. E. Hatch,	7.00	
Wm. R. West,	42.68	\$72.50

### Acushnet Avenue:

J. L. G. Mason,	\$133.13	
T. J. Moriarty,	1.60	
E. F. Penney,	64.47	
R. A. Sherman & Son,	2.31	201.51

### Benjamin:

M. A. Hickey,	\$281.13	
John J. Meaney,	123.83	
E. F. Penney,	28.57	433.53

### Cannonville:

A. P. Pope,	\$32.55	32.55
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### Cedar Street:

D. Webster Allen,	\$10.92	
Geo. E. Hatch,	12.60	
James B. Hazzard,	12.97	
Mrs. B. F. Lewis,	19.57	
J. L. G. Mason,	22.20	

A. W. Perkins & Co.,	3.00	
Frank B. Sistare,	19.68	
P. R. Swift,	120.67	
Charles Thompson,	2.50	224.11
Cedar Grove Street :		
Acushnet Iron Co.,	\$9.75	
John Bertram,	72.70	
Loum H. Faunce,	94.32	
Edgar H. Gammons,	2.00	
Highways and streets,	15.14	
Wm. R. West,	35.40	
Wood, Brightman & Co.,	\$110.00	339.31
Clark's Point :		
N. B. Water Works,	\$18.39	
E. F. Penney,	11.97	30.36
Dartmouth Street :		
Geo. F. Curry,	\$322.27	
F. H. Dean,	8.28	
M. A. Hickey,	291.21	
Highways and streets,	137.11	
E. F. Penney,	24.53	783.40
Fifth Street :		
T. W. Chace & Co.,	\$42.44	
Greene & Wood,	7.41	
Jenney & Buffington,	1.04	
Herman Karcher,	83.81	
R. A. Sherman & Son,	8.00	
R. H. Taber,	4.82	
Henry W. Tripp,	159.00	
S. A. Tripp,	2.30	308.82
Harrington :		
D. L. Hathaway & Son,	\$112.13	
James G. Hellyer,	43.73	
James F. Slade,	10.00	
John B. Sullivan,	106.67	272.53
High :		
Bliss & Nye,	\$4.32	
T. W. Chace & Co.,	130.89	
R. T. Durfey,	9.07	
Mrs. B. F. Lewis,	395.41	
Wm. Peirce,	11.00	

A. P. Pope,	57.07	
Wood, Brightman & Co.,	15.61	623.37
Howland :		
Wm. S. Brown,	\$17.75	
T. W. Chace & Co.,	4.35	
F. W. Choate,	43.50	
Geo. E. Hatch,	282.66	
Kern & Wright,	4.49	
J. L. G. Mason,	6.59	
Chas. E. Peirce,	1,488.20	
A. W. Perkins & Co.,	8.05	
R. A. Sherman & Son,	192.85	
Highways and streets,	.22	
Alex. O. Peirce,	7.55	2,056.21
Linden Street :		
Geo. E. Hatch,	\$11.90	
Highways and streets,	1.44	13.34
Madison Street :		
T. W. Chace & Co.,	\$7.40	
Kern & Wright,	13.13	
R. A. Sherman & Son,	15.11	35.64
Maxfield Street :		
Chas. O. Brightman,	\$4.95	
Geo. E. Hatch,	1.75	
D. L. Hathaway & Son,	398.65	
E. M. Durfee,	22.48	
Highways and streets,	1.30	
John B. Sullivan,	74.54	
Wm. R. West,	5.35	509.02
Merrimac Street :		
Geo. E. Hatch,	\$3.92	
Landers & Vance,	2.95	
J. L. G. Mason,	62.54	
A. P. Pope,	56.07	125.48
Middle Street :		
R. T. Durfee,	\$89.73	
James B. Hazzard,	3.88	
Highways and streets,	14.20	
Chas. F. Keen,	33.00	
Mrs. B. F. Lewis,	78.42	
Geo. S. Perry & Co.,	82.86	

E. F. Penney,	20.22	
A. P. Pope,	4.05	
James L. Sherman,	42.42	
Nathan Wheaton,	70.84	439.62
North :		
Mary I. Ashley,	\$34.00	
James B. Hazzard,	17.84	51.84
Parker Street :		
Edgar H. Gammons,	\$4.00	
H. K. Haskins,	242.40	
Geo. E. Hatch,	12.85	
Highways and streets,	7.95	
J. L. G. Mason,	42.63	
D. A. McKenzie,	25.00	
James L. Sherman,	182.12	
Chas. Thompson,	77.45	594.40
Rockdale :		
D. L. Hathaway & Son,	\$134.06	134.06
Plainville :		
R. T. Durfey,	\$11.48	
Mrs. B. F. Lewis,	16.70	
James L. Sherman,	11.05	39.23
Thompson Street :		
T. W. Chace & Co.,	\$15.05	
F. H. Dean,	27.00	
Highways and streets,	204.69	
Llewelyn Lloyd,	300.00	
John Marland,	20.00	
Wm. Maxfield & Son,	16.72	
T. J. Moriarty,	.25	
R. A. Sherman & Son,	37.56	621.27
		<hr/> \$7,942.10
To transfer to balance,		757.90
		<hr/> \$8,700.00

## CR.

By appropriation,	\$6,000.00	
Transfer from unappropriated funds,	2,700.00	\$8,700.00



## PUBLIC SCHOOLS—DOG FUND.

## DR.

Almy & Hitch,	\$ .90	
E. Anthony & Sons,	8.18	
T. M. Balliet,	25.00	
W. M. Belcher & Co.,	70.00	
Peter Black,	4.58	
Bliss & Nye,	2.75	
Arthur C. Boyden,	85.00	
F. S. Brightman,	3.00	
Coffin Bros.,	11.38	
Mary E. Donavan,	23.21	
Geo. A. Eggars,	9.00	
Evening Journal,	1.00	
Frost & Adams Co.,	83.50	
J. L. Hammett Co.,	572.00	
T. M. Hart & Co.,	87.47	
Harvard University,	163.65	
Haskell & Tripp,	1.60	
Wm. E. Hatch,	225.00	
Hillman, Washburn & Co.,	54.00	
John J. Meaney,	5.86	
Mercury Pub. Co.,	33.15	
Samuel E. Miller,	81.00	
Moynan & Co.,	2.73	
Oak Hall Clothing Co.,	5.75	
Orpin Bros.,	302.00	
Geo. S. Perry & Co.,	70.25	
Henry T. Phillips,	81.00	
Geo. D. Richards,	5.50	
David S. Small,	37.00	
Allen Smith, Jr.,	31.50	
Smith Premier Type Writer Co.,	164.00	
Robert W. Taber,	158.75	
Geo. F. Weeden,	75.00	
A. P. White,	50.00	
Wyckoff, Seamans & Benedict,	140.00	\$2,674.71
Jan. 4, 1897. To balance,		2,287.58
		<hr/>
		\$4,962.29

## CR.

Jan. 6, 1896. By balance,	\$3,722.88	
Cash receipts as per Treasurer's report,	1,239.41	\$4,962.29

## CR.

Jan. 4, 1897. By balance,	\$2,287.58
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### PUBLIC SCHOOLS—CLARK STREET, FURNITURE AND FURNISHINGS.

## DR.

F. T. Akin & Co.,	\$10.90	
Bliss & Nye,	1.11	
T. W. Chace & Co.,	18.00	
E. B. Chase & Co.,	5.25	
Geo. E. Faisneau,	3.55	
Chas. A. Gray,	5.25	
Hillman, Washburn & Co.,	55.76	
W. A. Jennings,	4.50	
Edwin Jones,	3.79	
N. B. Gas & Edison Light Co.,	6.60	
Padelford & Besse,	99.00	
Geo. S. Perry & Co.,	1,007.23	
Henry T. Phillips,	26.95	
Geo. D. Richards,	4.95	
C. R. Sherman & Son,	1.25	
R. A. Sherman & Son,	171.00	
Robert W. Taber,	13.18	
Taylor & Sawtelle,	.46	
Wm. R. West,	28.11	
A. P. White,	26.95	
Alfred G. Wilbor,	34.50	
C. F. Wing,	322.83	
J. S. Wright,	1.20	\$1,852.32
To transfer to balance,		247.68
		<u>\$2,100.00</u>

## CR.

By special appropriation,

\$2,100.00

PUBLIC SCHOOLS—MERRIMAC STREET, RE-  
PAIRS AND ALTERATIONS.

## DR.

D. Webster Allen,	\$290.75	
Chas. A. Gray,	17.79	
Geo. E. Hatch,	1,517.30	
Highways and streets,	16.69	
J. L. G. Mason,	1,571.36	
N. B. Gas & Edison Light Co.,	259.67	
N. B. Water Works,	15.31	
A. W. Perkins & Co.,	1.00	
Chas. E. Phillips,	197.45	
Henry T. Phillips,	24.00	
A. P. Pope,	695.01	
F. L. Sowle & Co.,	4.02	
Chas. Thompson,	12.40	
A. P. White,	102.25	\$4,725.00

## CR.

By special appropriations,

\$4,725.00

PUBLIC SCHOOLS—MIDDLE STREET, NEW  
BOILER.

## DR.

Nathan Wheaton,	\$532.40	
D. W. Wilson,	667.60	\$1,200.00

## CR.

By special appropriation,

\$1,200.00

1897.

## AUDITOR'S REPORT.

113

## REAL ESTATE TAX ACCOUNT.

## DR.

Jan. 6, 1896. To balance,	\$1,066.87
Collector of taxes,	778.98
	<u>\$1,845.85</u>

## CR.

Jan. 4, 1897. By cash receipts as per Treasurer's report,	\$893.06
Balance,	952.79
	<u>\$1,845.85</u>

## DR.

Jan. 4, 1897. To balance,	<u>\$952.79</u>
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## PURCHASE OF ROTCH'S WHARF.

## DR.

Rotch's Wharf Co.,	<u>\$22,000.00</u>
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## CR.

By special appropriation,	<u>\$22,000.00</u>
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## PURCHASE OF TABER'S WHARF.

## DR.

Taber's Wharf Co.,	<u>\$30,000.00</u>
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## CR.

By special appropriation,	<u>\$30,000.00</u>
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## DEPARTMENT OF WHARVES.

## DR.

F. T. Akin & Co.,	\$8.49	
Wm. Buckley,	15.00	
W. H. Collins & Co.,	4.50	
DeWolf & Vincent,	5.48	
Joseph Donaghy,	248.97	
Greene & Wood,	77.15	
Jona. Handy Co.,	12.74	
Highways and streets,	21.79	
E. B. Macy,	38.15	
Fred'k P. Mayo,	225.00	
Wm. Maxfield & Son,	7.95	
Mercury Pub. Co.,	2.75	
N. B. Water Works,	6.34	
John B. Sherman,	106.91	
J. Weston Swift,	27.00	\$808.22
Jan. 4, 1897. To balance,		1,127.17
		<u>\$1,935.39</u>

## CR.

By transfer from unappropriated funds,	\$381.44	
Cash receipts as per Treasurer's report,	1,553.95	\$1,935.39

## CR.

Jan. 4, 1897. By balance,	<u>\$1,127.17</u>
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## CITY PROPERTY.

## DR.

## Almshouse :

H. T. Borden,	\$35.65
Greene & Wood,	20.61
Hillman, Washburn & Co.,	44.27
Jenney & Buffington,	61.10
Lewis & Padelford,	77.21
Llewelyn Lloyd,	10.00

John W. Look,	391.30	
S. C. Lowe,	.80	
N. B. Gas & Edison Light Co.,	4.50	
Chas. S. Paisler,	44.57	
James L. Sherman,	305.38	
B. S. Sturtevant,	65.98	
Wm. R. West,	14.15	
D. W. Wilson,	65.81	\$1,141.33

## City Hall:

Almy & Hitch,	\$14.01	
F. T. Akin & Co.,	1.45	
George Brennan,	333.39	
Chas. O. Brightman,	143.24	
Coggeshall, Maxfield & Co.,	5.65	
DeWolf & Vincent,	.99	
W. & B. Douglass,	18.00	
T. J. Gifford & Co.,	.60	
Jona. Handy Co.,	1.29	
Highways and streets,	291.26	
S. C. Lowe,	88.44	
N. B. Boiler & Machine Co.,	614.10	
N. B. Gas & Edison Light Co.,	6.44	
N. Y., N. H. & Hartford Railroad Co.,	.25	
N. B. Water Works,	39.42	
Peirce, Lewis & Co.,	56.18	
E. H. Pierce,	.60	
D. M. Piper,	10.00	
A. P. Pope,	62.33	
James Warren,	10.00	
Wm. R. West,	20.28	
Wilson & Wordell,	18.75	1,736.67

## City Wood Yard:

Coggeshall, Maxfield & Co.,	\$5.40	5.40
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## Engine Houses:

D. H. Cook,	\$187.68	
C. Hammond & Son,	35.00	
Geo. E. Hatch,	51.20	
D. L. Hathaway & Son,	17.93	
Wm. A. Kirby,	.35	
John W. Lynch,	23.21	
N. B. Gas & Edison Light Co.,	4.27	
A. W. Perkins & Co.,	26.70	
John B. Sullivan,	798.00	
Wm. R. West,	77.24	1,221.58



## Guards Armory :

T. J. Gifford & Co.,	\$2.85	2.85
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## Library Building :

F. T. Akin & Co.,	\$7.27	
Almy & Hitch,	108.61	
F. S. Brightman,	.62	
Wm. S. Brown,	85.61	
C. L. Dunham,	47.65	
T. J. Gifford & Co.,	.60	
Geo. E. Hatch,	2.50	
Jenney & Buffington,	10.30	
Llewelyn Lloyd,	30.55	
S. C. Lowe,	5.10	
Wm. Maxfield & Son,	7.11	
N. B. Boiler & Machine Co.,	145.96	
N. B. Gas & Edison Light Co.,	1.15	
Padelford & Besse,	12.10	
A. P. Pope,	43.02	
C. R. Sherman & Son,	.10	
L. R. Washburn,	44.23	
Wm. R. West,	13.30	
C. F. Wing,	.65	
Wood, Brightman & Co.,	21.47	587.90

## Police Stations :

F. T. Akin & Co.,	\$62.24	
C. O. Brightman,	215.09	
Highways and Streets,	48.49	
N. B. Boiler & Machine Co.,	26.55	
N. B. Gas & Edison Light Co.,	20.09	
A. P. Pope,	14.10	
L. R. Washburn,	15.48	
Wm. R. West,	34.76	436.80

## Ward Rooms :

C. O. Brightman,	\$4.91	
F. B. Hathaway,	150.00	
J. L. Sylvia,	15.00	
J. P. Sylvia,	45.00	
Taylor & Sawtelle,	3.50	
Joseph C. Warren,	97.50	
W. R. West,	1.00	316.91

## Miscellaneous :

Asa L. H. Allen, gilding frame,	\$50.00
E. Anthony & Sons, advertising,	46.69

C.O. Brightman, building and fitting band stands,	83.38	
Briggs & Lawrence, desk and seating chair,	23.25	
Bullock & Waldron, land, Briggs and Rivet sts.,	850.00	
Wm. H. Caswell, land, Oak Grove cemetery,	13,216.74	
Cath. Union Pub. Co., advertising	5.25	
Samuel H. Cook & Co., insurance,	100.00	
Evening Journal, advertising,	24.49	
Grand Rapids Wire Mat Co., mat,	10.20	
Highways and streets, moving snow,	408.17	
H. M. Maine, cleaning carpets,	2.10	
Mercury Pub. Co., advertising,	38.17	
Norfolk Mfg. Co., soap powder,	3.60	
E. H. Pierce, lawn mower, hose, mats, and hose menders,	50.90	
Peirce, Lewis & Co.,	10.00	
E. G. Reynolds, carriage hire,	16.00	
Wm. R. West, brush,	2.00	
C. F. Wing, cushion,	4.50	14,945.44
		<u>\$20,394.88</u>

## CR.

By appropriation,	\$5,000.00	
Special appropriations,	14,062.00	
Transfer from unappropriated funds,	826.00	
Transfer to balance,	506.88	\$20,394.88

## CITY PROPERTY—RECEIVING TOMB, RURAL CEMETERY.

## DR.

Samuel C. Hunt,	\$172.06	
Miller & Hook,	4,292.80	\$4,464.86
Jan. 4, 1897. To balance,		723.20
		<u>\$5,188.06</u>

## CR.

By special appropriation,	\$5,188.06
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## CR.

Jan. 4, 1897. By balance,	\$723.20
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# SCHOOLHOUSE LOT, DARTMOUTH STREET AND DUNBAR'S LANE.

## Dr.

Thomas B. and James H. Tripp,	\$4,900.00	
To transfer to balance,	50.00	\$4,950.00

## Cr.

By special appropriation,	\$4,950.00
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# SCHOOLHOUSE, CLARK STREET.

## Dr.

F. T. Akin & Co.,	\$302.16	
Highways and streets,	270.87	
Mortimer McCarty,	91.50	
N. B. Boiler & Machine Co.,	4,260.25	
Nat. C. Smith,	504.11	
James B. Taylor,	18,791.35	
Wm. R. West,	10.13	\$24,230.37

## Cr.

Jan. 6, 1896. By balance,	\$19,033.50	
Transfer to balance,	5,196.87	\$24,230.37

# SCHOOLHOUSE, DARTMOUTH STREET AND DUNBAR'S LANE.

## Dr.

Highways and streets,	\$14.63	
N. B. Water Works,	37.38	
Nat. C. Smith,	550.00	
Martin H. Sullivan,	17,114.28	\$17,716.29
Jan. 4, 1897. To balance,		19,576.71
		\$37,293.00

## Cr.

By special appropriation,	\$37,293.00
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## Cr.

Jan. 4, 1897. By balance,	\$19,576.71
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# SCHOOLHOUSE, PHILLIPS AVENUE AND BOWDITCH STREET.

## DR.

Denison Bros. Co.,	\$72.00	
C. Hammond & Son,	585.00	
Highways and streets,	2.00	
N. B. Water Works,	6.24	
A. A. Sanborn,	2,000.00	
John B. Sullivan,	14,919.68	\$17,584.92
Jan. 4, 1897. To balance,		9,299.76
		<u>\$26,884.68</u>

## CR.

Jan. 6, 1896. By balance,	<u>\$26,884.68</u>
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## CR.

Jan. 4, 1897. By balance,	<u>\$9,299.76</u>
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## SALARIES.

### DR.

David L. Parker, Mayor,	\$2,000.00
James H. Hathaway, City Treasurer and Collector of Taxes,	2,933.36
Daniel B. Leonard, City Clerk,	2,600.00
William S. Cook, Assistant City Clerk,	350.28
George W. Parker, City Auditor,	1,600.00
Eliot D. Stetson, City Solicitor,	1,000.00
George E. Eggars, Sealer of Weights and Measures,	366.00
Board of Assessors :	
George E. Briggs,	1,400.00
John A. Ruggles,	1,100.00
Chas. D. Tuell,	1,100.00
Wm. A. Mackie, Clerk of Common Council,	300.00
Augustus D. Piper, City Messenger,	800.00

Othello S. Driskell, Bell Ringer,	125.00
Chas E. Woodworth, Supt. City Clock,	75.00
P. B. Gifford, Harbor Master,	250.00
Dr. D. C. Ashley, Inspector of Cattle, Meat, Milk and Provisions,	1,200.00
Edmund O'Keefe, Inspector of Buildings,	1,800.00
Daniel B. Briggs, Supervisor of Wires,	300.00

## Board of Health :

Dr. Wm. N. Swift,	423.54
Nath'l Hathaway,	500.00
T. W. Cook,	455.59
Wm. G. Kirschbaum,	44.41
Dr. E. E. Waite,	76.46

## Board of Registrars :

Willard N. Lane,	400.00
John A. Gomley,	300.00
Edwin A. Douglass,	300.00
Daniel B. Leonard,	300.00

## Board of Aldermen :

Luther G. Hewins, Jr.,	83.30
Samuel C. Hunt,	100.00
John H. Barrows,	100.00
William R. West,	100.00
J. Arthur Taylor,	100.00
Samuel E. Bentley,	100.00

## License Commission :

George F. Brightman,	300.00
John J. Howland,	207.00
Frank M. Sparrow,	167.58
Gilbert N. Hall,	93.00
E. T. Pierce,	132.42
	<u>\$23,582.94</u>

## CR.

By appropriation,	\$23,315.00
Transfer to balance,	267.94
	<u>\$23,582.94</u>

## SEWERS, GENERAL ACCOUNT.

## Dr.

Pay rolls,	\$6,010.30
Acushnet Iron Co.,	42.85
E. Anthony & Sons,	2.75
F. S. Brightman,	15.75
Dr. John T. Bullard,	28.00
City Coal Co.,	383.80
Corson Coal Co.,	180.50
DeWolf & Vincent,	63.90
Edson Mfg. Co.,	2.00
Geo. A. Eggars,	57.56
Fairhaven Iron Foundry Co.,	300.65
Fichtenmeyer & Flynn,	.75
Fournier & Nicholson,	.15
Gardner & Southwick,	5.88
Chas. A. Gray,	98.28
Thos. M. Hart & Co.,	7.36
Geo. E. Hatch,	9.32
N. P. Hayes,	72.24
Highways and streets,	2,549.31
Geo. G. Huddy,	2.50
Ingersoll-Sergeant Drill Co.,	26.66
P. P. Jenney & Son,	3.91
S. C. Lowe,	58.45
T. E. Mahoney,	4.64
Geo. A. Markey,	66.30
John McCullough,	86.95
N. B. Cordage Co.,	14.97
N. B. Rubber Co.,	204.30
N. B. Water Works,	30.00
N. Y., N. H. & Hartford Railroad Co.,	10.58
S. S. Paine & Bro.,	1,243.66
Charles S. Paisler,	4,165.60
A. W. Perkins & Co.,	.50
C. G. & G. A. Randall,	28.95
George D. Richards,	1.05
C. R. Sherman & Son,	2.25
Jos. W. Spooner,	25.00
Frank S. Tripp,	10.25
Herbert L. Weeks,	1.87
Wm. R. West,	.24



Wood, Brightman & Co.,	12.04	\$15,832.02
Transfer to Highways and streets,		3,000.00
To transfer to balance,		2,024.72
		<u>\$20,856.74</u>

## CR.

By appropriation,	\$15,000.00	
Transfer from unappropriated funds,	5,856.74	\$20,856.74

## SEWER, LOWERING ACUSHNET AVE., NO. 18.

## DR.

To highways and streets,	<u>\$32.10</u>
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## CR.

By transfer from unappropriated funds,	<u>\$32.10</u>
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## SEWER, ACUSHNET AVENUE, NO. 20.

## DR.

Pay rolls,	\$175.43	
De Wolf & Vincent,	.75	
General sewers,	60.90	
Highways and streets,	7.83	\$244.91
Transfer to sewer, Bourne street, No. 1,		250.00
Transfer to highways and streets,		5.09
		<u>\$500.00</u>

## CR.

By special appropriation,	<u>\$500.00</u>
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## SEWER, ARNOLD STREET, NO. 3.

## Dr.

Pay rolls,	\$152.81	
General Sewers,	73.60	
Highways and Streets,	21.18	
P. P. Jenney & Son,	.75	\$248.34
Transfer to highways and streets,		151.66
		<u>\$400.00</u>

## Cr.

By special appropriation,	<u>\$400.00</u>
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## SEWER, BELLEVILLE AVENUE, NO. 8

## Dr.

Pay roll,	\$111.20	
Jan. 4, 1897. To balance,	288.80	
		<u>\$400.00</u>

## Cr.

By special appropriation,	<u>\$400.00</u>
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## Cr.

Jan. 4, 1897. By balance,	<u>\$288.80</u>
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## SEWER, BORDEN STREET, NO. 3.

## Dr.

Pay rolls,	\$101.54	
General sewers,	97.17	
Highways and streets,	34.47	\$233.18
Transfer to highways and streets,		66.82
		<u>\$300.00</u>

## Cr.

By special appropriation,	<u>\$300.00</u>
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## SEWER, BOURNE STREET, NO. 1.

## Dr.

Pay rolls,	\$188.20	
General sewers,	75.60	
Highways and streets,	17.53	\$281.33

## Cr.

By transfer from sewer, Acushnet avenue, No. 20,	\$250.00	
Transfer to balance,	31.33	\$281.33

## SEWER, BULLARD STREET, NO. 2.

## Dr.

Pay rolls,	\$489.50	
General sewers,	101.98	
Chas. A. Gray,	17.75	
Highways and streets,	61.57	\$670.80
Transfer to sewer, Bullard street, No. 3,		300.00
Transfer to highways and streets,		29.20
		<u>\$1,000.00</u>

## Cr.

By special appropriation,	<u>\$1,000.00</u>
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## SEWER, BULLARD STREET, NO. 3.

## Dr.

Pay roll,	\$1,360.51	
C. A. Gray,	29.25	
Highways and Streets,	72.79	
P. P. Jenney & Son,	.50	
Spencer's wood yard,	2.50	
E. & K. C. Terry,	60.86	\$1,526.41
Jan. 4, 1897. To balance,		300.00
		<u>\$1,826.41</u>

1897.

## AUDITOR'S REPORT.

125

## CR.

By transfer from sewer, Bullard street, No. 2,	\$300.00	
“ “ “ Nye street,	300.00	
“ “ “ Weaver street,	900.00	
By transfer,	326.41	<u>\$1,826.41</u>

## CR.

Jan. 4, 1897. By balance,		<u>\$300.00</u>
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## SEWER, BUTLER STREET.

## DR.

Pay roll,	\$332.77	
General sewers,	65.75	
Highways and streets,	75.26	\$473.78
Transfer to highways and streets,		<u>1.62</u>
		<u>\$475.40</u>

## CR.

Jan. 6, 1897. By balance,	\$375.40	
By transfer from unappropriated funds,	100.00	<u>\$475.40</u>

## SEWER, CHANCERY STREET, NO. 3.

## DR.

Pay rolls,	\$88.60	
General sewers,	70.94	
Highways and streets,	13.22	\$172.76
Transfer to highways and streets,		<u>27.24</u>
		<u>\$200.00</u>

## CR.

By special appropriation,		<u>\$200.00</u>
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## SEWER, CHANCERY STREET, NO. 4.

## Dr.

Pay rolls,	\$399.74	
General sewers,	190.98	
Highways and streets,	21.85	\$612.57
To transfer to balance,		87.43
		<hr/>
		\$700.00

## Cr.

By transfer from unappropriated funds,	<hr/>	\$700.00
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## SEWER, CHERRY AND SIXTH STREETS.

## Dr.

Pay rolls,	\$692 81	
General sewers,	161.85	
Chas. A. Gray,	35.75	
Geo. E. Hatch,	1.50	
Highways and streets,	142.45	
P. P. Jenney & Son,	.40	\$1,034.76

## Cr.

By special appropriation,	\$1,000.00	
Transfer from sewer, Dean street,	34.76	\$1,034.76

## SEWER, CHESTNUT STREET, NO. 3.

## Dr.

Pay rolls,	\$250.36	
General sewers,	146.29	
Highways and streets,	28.04	\$424.69
Transfer to highways and streets,		575.31
		<hr/>
		\$1,000.00

## Cr.

By special appropriation,	<hr/>	\$1,000.00
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## SEWER, COGGESHALL STREET, NO. 4.

## DR.

General sewers,	\$146.37	
Highways and streets,	30.83	\$177.20

## CR.

Jan. 6, 1896. By balance,	\$55.64	
By transfer from unappropriated funds,	121.56	\$177.20

## SEWER, COTTAGE AND GROVE STREETS.

## DR.

Pay rolls,	\$635.74	
General sewers,	157.29	
Highways and streets,	44.89	
N. B. Water Works,	4.70	\$842.62

## CR.

By transfer from sewer, Weaver street,	\$750.00	
Transfer to balance,	92.62	\$842.62

## SEWER, DAVIS STREET, NO. 3.

## DR.

Pay rolls,	\$1,180.96	
David Duff & Son,	58.37	
Geo. A. Eggars,	73.87	
General sewers,	117.10	
Chas. A. Gray,	14.02	
Highways and streets,	215.27	
P. P. Jenney & Son,	1.25	
C. G. & G. A. Randall,	32.26	
Joseph W. Spooner,	5.00	\$1,698.10
Transfer to highways and streets,		1.90
		<u>\$1,700.00</u>



## CR.

By special appropriation,	\$1,500.00	
Transfer from unappropriated funds,	200.00	\$1,700.00

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## SEWER, DEAN STREET.

## DR.

Pay rolls,	\$1,325.85	
T. S. Corson,	18.21	
General sewers,	307.85	
Chas. A. Gray,	35.25	
Highways and streets,	169.75	
P. P. Jenney & Son,	.25	
C. G. & G. A. Randall,	44.49	
So. Mass. Telephone Co.,	.30	
Joseph W. Spooner,	5.00	
Wm. R. West,	.75	\$1,907.70
Transfer to Coggeshall street bridge repairs,		242.15
“ Sewer, Cherry and Sixth streets,		34.76
“ Construction shed and fence, city stable,		71.72
“ Highways and streets,		1,543.67
		<hr/> \$3,800.00

## CR.

By special appropriation,	<hr/> \$3,800.00
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## SEWER, FOURTH STREET, NO. 4.

## DR.

Pay rolls,	\$80.61	
City Coal Co.,	2.85	
General sewers,	41.44	
Highways and streets,	20.39	\$145.29
Jan. 4, 1897. To balance,		54.71
		<hr/> \$200.00

1897.

## AUDITOR'S REPORT.

129

CR.

By special appropriation,	\$200.00
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CR.

Jan. 4, 1897. By balance,	\$54.71
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## SEWER, FRONT STREET, NO. 11.

DR.

Pay rolls,	\$402.98	
General sewers,	92.33	
Chas. A. Gray,	17.25	
Highways and streets,	84.21	\$596.77
Transfer to highways and streets,		3.23
		<u>\$600.00</u>

CR.

By special appropriation,	\$600.00
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## SEWER, FRONT STREET, NO. 12.

DR.

Pay rolls,	\$539.70	
David Duff & Son,	5.40	
General sewers,	106.48	
Chas. A. Gray,	35.00	
Highways and streets,	132.84	819.42
Transfer to sewer, Water street, No. 11,		300.00
"    Highways and streets,		80.58
		<u>\$1,200.00</u>

CR.

By special appropriation,	\$1,200.00
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## SEWER, HALL STREET, NO. 2.

## DR.

Pay rolls,	\$110.80	
General sewers,	95.81	
Highways and streets,	13.65	
P. P. Jenney & Son,	.25	\$220.51
Transfer to highways and streets,		129.49
		<u>\$350.00</u>

## CR.

By special appropriation,	<u>\$350.00</u>
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## SEWER, HARRISON STREET.

## DR.

Pay rolls,	\$257.90	
General Sewers,	79.03	
Highways and streets,	27.82	\$364.75

## CR.

By appropriation,	\$300.00	
Transfer from sewer, Weaver street,	64.75	\$364.75

## SEWER, HOWLAND STREET, NO. 3.

## DR.

Pay rolls,	\$6,369.79	
Babbitt, Wood & Co.,	.45	
C. O. Brightman,	91.00	
City Coal Co.,	1,372.75	
Chas. E. Davis,	20.00	
DeWolf & Vincent,	24.61	
David Duff & Son,	308.16	
Manuel Enos,	7.03	
Fichtenmeyer & Flynn,	.18	
Chas. A. Gray,	15.50	
Greene & Wood,	623.29	
Jona. Handy Co.,	18.80	

F. B. Hathaway,	66.06	
N. P. Hayes,	2.25	
Highways and streets,	1,498.33	
P. P. Jenney & Son,	2.25	
Ernest F. McCarty,	2.50	
N. B. Boiler & Machine Co.,	18.27	
N. B. Rubber Co.,	.37	
N. B. Water Works,	4.44	
S. S. Paine & Bro.,	1,829.74	
C. S. Paisler,	382.85	
E. F. Penney,	3.48	
A. W. Perkins & Co.,	167.46	
Pierce Mfg. Corporation,	1.50	
E. H. Pierce,	3.21	
C. G. & G. A. Randall,	54.33	
Schuler Bros.,	.40	
Joseph W. Spooner,	5.00	
Joseph Williams,	8.97	
Wood, Brightman & Co.,	1.75	\$12,904.72
Jan. 4, 1897. To balance,		3,095.28
		<u>\$16,000.00</u>

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CR.

By special appropriation,	<u>\$16,000.00</u>
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CR.

Jan. 4, 1897. By balance,	<u>\$3,095.28</u>
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## SEWER, LOWERING KEMPTON STREET.

DR.

Pay rolls,	\$854.00	
DeWolf & Vincent,	3.90	
General sewers,	192.49	
Geo. E. Hatch,	1.55	
Highways and streets,	67.85	
P. P. Jenney & Sons,	.75	
C. G. & G. A. Randall,	70.53	\$1,191.07
Transfer to sewer, Weaver street,		750.00
“ Highways and streets,		58.93
		<u>\$2,000.00</u>

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## Cr.

By special appropriation,	\$2,000.00
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## SEWER, LOCUST STREET, NO. 3.

## Dr.

Pay rolls,	\$156.14	
C. L. Dunham,	1.83	
General sewers,	100.35	
Highways and streets,	19.69	\$278.01
Transfer to highways and streets,		121.99
		<hr/>
		\$400.00

## Cr.

By special appropriation,	\$400.00
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## SEWER, MERRIMAC STREET, NO. 2.

## Dr.

Pay rolls,	\$260.66	
General sewers,	122.04	
Highways and streets,	38.10	\$420.80
Transfer to highways and streets,		179.20
		<hr/>
		\$600.00

## Cr.

By special appropriation,	\$600.00
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## SEWER, MILL STREET, NO. 7.

## Dr.

Pay rolls,	\$1,525.15
George A. Eggars,	77.37
General sewers,	602.24
Highways and streets,	271.23

Thos. M. Hart & Co.,	3.80	
P. P. Jenney & Son,	.25	
John McCullough,	6.80	
S. S. Paine & Bro.,	11.63	
C. G. & G. A. Randall,	32.52	
Jas. L. Sherman,	1.20	
So. Mass. Telephone Co.,	.15	
Joseph W. Spooner,	5.00	
W. F. Sturtevant,	3.40	
Sewer, Coggeshall street,	28.81	\$2,569.55
Transfer to highways and streets,		32.16
		<u>\$2,601.71</u>

## CR.

Jan. 6, 1896. By balance,	\$2,101.71	
Transfer from unappropriated funds,	500.00	\$2,601.71

## SEWER, NYE STREET, NO. 2.

## DR.

Pay roll,	\$926.10	
General sewers,	165.40	
Greene & Wood,	88.72	
Highways and streets,	69.56	
Hillman, Washburn & Co.,	3.45	
P. P. Jenney & Son,	1.00	
N. B. Cordage Co.,	6.71	
S. S. Paine & Bro.,	9.30	
Joseph W. Spooner,	5.00	\$1,275.24
Transfer to sewer, Bullard street, No. 2,		300.00
“ Highways and streets,		24.76
		<u>\$1,600.00</u>

## CR.

By special appropriation,	<u>\$1,600.00</u>
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## SEWER, ORCHARD STREET, NO. 5.

## DR.

Pay rolls,	\$329.52	
General sewers,	187.01	
Highways and streets,	35.31	
Transfer to highways and streets,	948.16	\$1,500.00

## CR.

By special appropriation,	\$1,500.00
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## SEWER, ROTCH STREET.

## DR.

Pay rolls,	\$115.00	
General sewers,	62.28	
Highways and streets,	16.79	\$194.07
Transfer to highways and streets,		105.93
		<u>\$300.00</u>

## CR.

By special appropriation,	\$300.00
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## SEWER, SCOTT STREET.

## DR.

Highways and streets,	\$10.50	
Transfer to highways and streets,	123.50	\$134.00

## CR.

Jan. 6, 1896. By balance,	\$134.00
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## SEWER, SHAWMUT AVENUE, NO. 4.

## DR.

Pay rolls,	\$96.00	
General sewers,	62.72	
Highways and streets,	11.86	\$170.58
Transfer to highways and streets,		79.42
		<u>250.00</u>

## CR.

By special appropriation,	\$250.00
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## SEWER, UNION STREET, NO. 7.

## DR.

Pay rolls,	\$207.20	
General sewers,	105.86	
Highways and streets,	22.34	\$335.40
Transfer to highways and streets,		164.60
		<hr/>
		\$500.00

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## CR.

By special appropriation,	\$500.00
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## SEWER, VINE STREET.

## DR.

Highways and streets,	\$4.00
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## CR.

By transfer from unappropriated funds,	\$4.00
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## SEWER, WATER STREET, NO. 11.

## DR.

Pay rolls,	\$220.14	
George England,	.50	
General sewers,	39.62	
Chas. A. Gray,	15.50	
Highways and streets,	89.90	
P. P. Jenney & Son,	.25	
Joseph H. Mayo,	1.60	
S. S. Paine & Bro.,	9.75	\$377.26
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## CR.

Transfer from sewer, Front street, No. 12,	\$300.00	
Transfer to balance,	77.26	\$377.26

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## SEWER, WEAVER STREET.

## DR.

Pay rolls,	\$520.22	
General sewers,	253.28	
Highways and streets,	60.41	\$833.91
Transfer to sewer, Bullard street,		900.00
"    "    Harrison street,		64.75
"    "    Cottage and Grove streets,		750.00
"    "    Highways and streets,		1.34
		<u>\$2,550.00</u>

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## CR.

By special appropriation,	\$1,800.00	
Transfer to sewer, Kempton street,	750.00	\$2,550.00

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## PUBLIC DEBT.

## DR.

Principal (bonds) paid,	\$55,000.00	
Interest on bonds,	102,452.50	
Interest on trust funds,	6,786.00	
Interest on notes,	15,334.03	\$179,572.53

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## CR.

Jan. 6, 1896. By balance,	\$595.00	
By appropriation,	87,021.00	
Cash receipts as per Treasurer's report,	57,000.00	
Transfer from unappropriated funds,	20,000.00	
Transfer to balance,	14,956.53	\$179,572.53

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## SINKING FUNDS.

## DR.

Sinking Fund Commissioners,	\$74,240.00
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## CR.

By appropriation,	\$74,240.00
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## TEMPORARY LOAN.

## DR.

To paid loans,	\$586,300.00
Jan. 4, 1897. To balance,	520.105.00 \$1,106,405.00

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## CR.

Jan. 6, 1896. By balance,	\$60,000.00
By cash receipts as per Treasurer's report,	1,046,405.00 \$1,106,405.00

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## CR.

Jan. 4, 1897. By balance,	\$520,105.00
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## TRUST FUNDS.

## CR.

## BY SYLVIA ANN HOWLAND FREE PUBLIC LIBRARY FUND :

One-half of the bequest of Sylvia Ann Howland for the support of liberal education and Free Public Library,	\$50,000.00
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## BY SYLVIA ANN HOWLAND EDUCATIONAL FUND :

One-half of the bequest of Sylvia Ann Howland for the support of liberal education and Free Public Library,	50,000.00
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## BY GEORGE HOWLAND, JR., FUND :

Donation to Free Public Library :	1,600.00
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## BY CHARLES W. MORGAN FUND :

Bequest to Free Public Library,	1,000.00
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## BY OLIVER CROCKER FUND :

Bequest to Free Public Library,	1,000.00
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## BY JAMES B. CONGDON FUND :

Donation to Free Public Library,	500.00
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## BY JONATHAN BOURNE PRIZE FUND :

Donation to School Committee,	1,000.00
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## BY GEORGE O. CROCKER FUND :

Bequest to Free Public Library,	10,000.00
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## BY ELIZABETH T. WOOD :

Bequest to Free Public Library,	2,000.00
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	\$117,100.00
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## UNAPPROPRIATED FUNDS.

## DR.

## To transfers to—

Armories,	\$2,000.00
Board of Assessors,	1,500.00
Cemeteries,	3,000.00
City property,	826.00
Election funds,	5,500.00
Engineering department,	1,500.00
“ “ grade crossings,	1,000.00
Fire department,	6,000.00
“ underground wires,	350.00
Highways and streets,	44,340.67
Incidentals,	1,150.00
Police department,	7,000.00
Poor department,	5,500.00
Public debt,	20,000.00
Public schools, repairs of buildings,	2,700.00
Real estate tax account,	208.28
Department of wharves,	381.44
Sewers, general account.	5,856.74
“ Acushnet avenue,	32.10
“ Chancery street,	700.00
“ Coggeshall street,	121.56
“ Butler street,	100.00
“ Davis street,	200.00
“ Mill street, No. 7,	500.00
“ Vine street,	4.00
Transfers to balance,	30,524.84
	<u>\$140,995.63</u>

## CR.

By cash receipts as per Treasurer's report,	\$140,995.63
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## BALANCE OF PUBLIC PROPERTY.

## DR.

To bonds issued,	\$400,000.00	
Jan. 4, 1897. To balance,	1,001,466.46	\$1,401,466.46

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## CR.

Jan. 6, 1896. By balance,	\$1,153,501.84	
By bonds paid,	55,000.00	
Public property,	102,990.65	
Sinking Fund Commissioners,	89,973.97	\$1,401,466.46

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## CR.

Jan. 4, 1897. By balance,		\$1,001,466.46
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## PUBLIC PROPERTY.

(OTHER THAN WATER WORKS.)

## DR.

Jan. 6, 1896. To balance,	\$1,787,301.00	
Increase in valuation over 1895,	102,990.65	\$1,890,291.65

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## NEW BEDFORD WATER WORKS.

(AS PUBLIC PROPERTY.)

## DR.

Jan. 4, 1897. To valuation of works,		\$1,200,000.00
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## SINKING FUND COMMISSIONERS.

## Dr.

Jan. 6, 1896. To balance,	\$373,200.84	
Increase in hands of Commissioners since 1895,	89,973.97	\$463,174.81
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## BONDS.

## Dr.

To bonds paid,	\$55,000.00	
Jan. 4, 1897. To balance,	2,452,000.00	\$2,507,000.00
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## Cr.

Jan. 6, 1896. By balance,	\$2,107,000.00	
By bonds issued,	400,000.00	\$2,507,000.00
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# INTEREST PAYABLE IN 1897 ON PRESENT DEBT.

On \$100,000 Water bonds, at 7 per cent.,	\$7,000
160,000 " " 6 "	9,600
100,000 " " 5 "	5,000
740,000 " " 4 "	29,600
161,000 Improvements, at 6 per cent.,	9,660
500,000 " 4 "	20,000
35,000 " $3\frac{1}{2}$ "	1,225
481,000 Sewer bonds, at 4 per cent.,	19,240
75,000 " " $3\frac{1}{2}$ "	2,625
100,000 Park loan, at 4 per cent.,	4,000
<hr/> \$2,452,000	<hr/> \$107,950

THE FOLLOWING TABLE SHOWS THE AMOUNT OF TAXES LEVIED IN THIS CITY SINCE 1877, AND  
THE RATE PER THOUSAND, FOR STATE, COUNTY, AND CITY PURPOSES;  
ALSO, THE NUMBER OF POLLS.

Year.	Valuation of Real Estate.	Valuation of Personal Property.	State Tax.	County Tax.	City Tax.	Overlay.	No. of Polls.	Rate of Tax.
1877	\$12,609,200	\$13,524,097.00	\$21,870	\$23,859.86	\$436,200	\$17,273.46	6,502	\$18.60
1878	12,808,700	13,137,011.20	14,580	25,249.76	371,500	17,259.61	6,729	16.00
1879	12,898,300	12,874,418.00	7,290	25,666.72	386,000	17,497.36	6,891	16.40
1880	13,138,400	13,137,519.00	21,870	28,377.03	361,250	15,080.89	7,028	15.70
1881	13,505,400	13,699,922.00	21,870	26,871.30	437,300	16,084.49	7,025	18.00
1882	14,138,300	13,974,587.00	29,160	25,689.88	434,200	17,605.64	7,340	17.50
1883	15,109,300	15,180,305.00	25,770	29,468.95	452,400	16,614.41	7,694	16.80
1884	15,635,900	15,718,182.00	34,360	26,668.72	462,700	13,031.04	8,141	16.60
1885	16,293,800	15,104,090.00	27,770	27,735.50	457,950	17,028.11	8,349	16.30
1886	16,778,900	15,416,695.50	27,015	33,883.77	456,300	15,328.18	8,699	16.00
1887	17,372,600	15,309,658.00	40,522½	38,485.28	489,700	18,075.50	9,056	17.40
1888	18,023,700	15,430,647.00	40,522½	41,274.10	486,411	19,364.29	9,424	17.00
1889	18,928,800	15,718,866.00	34,700	51,476.17	508,600	17,642.91	9,972	17.10
1890	20,041,700	16,829,154.00	30,362½	50,632.30	519,300	22,120.12	10,710	16.30
1891	20,959,300	14,970,600.00	26,025	47,819.40	550,200	26,134.37	11,160	16.30
1892	22,094,300	18,179,813.00	31,377	51,410.26	606,700	27,976.39	11,861	17.30
1893	25,344,300	19,130,798.00	44,825	57,699.11	673,689	28,077.05	12,988	17.50
1894	31,835,500	19,599,425.00	35,860	67,796.46	699,176	25,711.57	13,080	15.60
1895	31,984,150	20,658,600.00	30,915	78,760.33	698,545	31,077.76	14,300	15.40
1896	33,920,700	22,360,417.00	36,067½	85,061.14	745,800	30,750.56	15,475	15.40

Average tax rate for twenty years, \$16.66.

CITY OF NEW BEDFORD,  
IN COMMITTEE, Nov. 1st, 1897.

The sub-committee appointed to appraise the city property, and prepare a schedule of the same, have attended to that duty, and submit the following report :

Poor department :

Almshouse, outbuildings and 12,407 rods of land,	\$98,035.00	
Furniture in almshouse,	2,750.00	
Farming and mechanics tools,	450.00	
Tedders, horse-rakes, manure spreader, &c.,	290.00	
Carts, gears, lumber wagons, &c.,	1,400.00	
Ambulance,	250.00	
Horses, oxen, cows, hogs and poultry,	1,255.00	
Hay, grain, vegetables, pork, &c.,	2,577.00	
Wood and coal shed, corner North Second and North streets,	3,000.00	
Wood and coal in shed,	150.00	\$110,157.00

Board of Health :

Small-pox hospital,	\$1,000.00	
Old almshouse and outbuildings,	1,500.00	
Furniture in hospital,	70.00	2,570.00

Highways and streets department :

Sundries, as per inventory,	12,249.00
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Sewer department :

Sundries, as per inventory,	3,206.79
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Engineering department :

Sundries, as per inventory,	2,200.00
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Street light department :

Gas and naphtha lamps, posts and lanterns,	\$4,152 00	
Tools for Inspector of Petroleum,	50.00	4,202.00

Public buildings, land, &c. :

City hall and lot,	\$141,466.00	
City library building and lot,	131,839.00	
City common,	85,000.00	
Rural cemetery,	130,267.00	
Oak Grove cemetery,	40,831.00	
Pine Grove cemetery,	800.00	
Central police station and lot,	15,700.00	



Willis street police station and lot,	3,043.00	
West police station,	300.00	
Police station and lot, corner Water and Blackmer streets,	13,504.00	
Police station and lot, corner Bowditch and Weld streets,	12,158.00	
Police signal barn and lot,	4,368.00	
Police telegraph signal system, including horses, wagons and apparatus,	9,550.00	
Land on Clark's Point,	4,191.00	
Volumes in city library,	56,500.00	
South pound lot,	800.00	
Ward house and lot, Fifth ward,	1,400.00	
Ward house and lot, Sixth ward,	2,450.00	
Standard weights and measures,	300.00	
Two brass field pieces,	1,300.00	
City stable lot and buildings,	45,400.00	
Brooklawn park,	31,450.00	
Buttonwood park,	32,665.00	
Grove park,	8,826.00	
Triangle park,	600.00	
Rifle range, Tarkiln Hill,	2,000.00	
Building and lot, corner High and Foster streets,	2,000.00	
Receiving tomb, Rural cemetery,	4,464.86	783,172.86

## School department :

Acushnet	schoolhouse and lot,	\$7,500.00
Acushnet avenue	" "	49,966.00
Cannonville	" "	1,665.00
Cedar street	" "	7,063.00
Cedar Grove street	" "	35,932.00
Clark's Point	" "	1,000.00
Clark street	" "	37,847.00
Dartmouth street	" "	17,106.00
Dartmouth street and Dunbar's lane	schoolhouse and lot,	22,616.00
Fifth street	schoolhouse and lot,	35,898.00
High	" "	113,388.00
Kempton street	" "	65,100.00
Linden street	" "	2,684.00
Madison street	" "	60,089.00
Maxfield street	" "	25,068.00
Merrimac street	" "	18,113.00
Middle street	" "	35,035.00

North, Tobey road, schoolhouse and lot,	2,000.00	
Parker street " "	50,226.00	
Phillips avenue and Bowditch st. school-house and lot,	23,200.00	
Plainville schoolhouse and lot,	1,000.00	
Rockdale " "	1,254.00	
William street " "	5,191.00	
Thompson street " "	37,800.00	
Harrington " "	54,503.00	
Division street " "	33,875.00	
Truant schoolhouse,	1,500.00	746,619.00

## Fire department :

Engine house and lot, Acushnet avenue,	\$1,000.00	
Engine house and lot, Acushnet avenue and Davis street,	26,410.00	
Engine house and lot, Hillman street,	33,570.00	
" " Purchase st., No. 1,	13,590.00	
" " Purchase st., No. 2,	21,220.00	
" " Fourth street,	13,000.00	
" " Bedford street,	16,009.00	
" " Durfee street,	16,966.00	
Steam fire engine, No. 1,	3,000.00	
" " No. 2,	3,000.00	
" " No. 4,	3,000.60	
" " No. 5,	3,500.00	
" " No. 6,	3,000.00	
" " No. 7,	3,300.00	
" " No. 8,	3,500.00	
" " Spare,	3,500.00	
Chemical wagon,	1,750.00	
Nine hose carriages,	3,800.00	
Hand engine, No. 9,	500.00	
Hayes truck, No. 1,	3,200.00	
Hayes truck, No. 2,	3,000.00	
Hayes truck, No. 3,	3,000.00	
Ryan truck,	1,200.00	
Eighteen thousand feet of hose,	9,000.00	
Forty-three horses and harnesses,	8,600.00	
Ten wagons,	3,000.00	
Fire alarm telegraph, including bells, strikers, &c.,	20,000.00	
Sundries,	2,500.00	227,115.00

Taber's wharf,	\$30,000.00	
Rotch's wharf,	22,000.00	52,000.00
		<hr/>
		\$1,943,491.65
New Bedford Water Works,		1,200,000.00
		<hr/>
		\$3,143,491.65

## RECAPITULATION.

Poor department,	\$110,157.00	
Board of Health,	2,570.00	
Highways and streets department,	12,249.00	
Sewer department,	3,206.79	
Engineering department,	2,200.00	
Street light department,	4,202.00	
Public buildings, land, &c.,	783,172.86	
School department,	746,619.00	
Fire department,	227,115.00	
Department of wharves,	52,000.00	
New Bedford Water Works,	1,200,000.00	\$3,143,491.65

Respectfully submitted,

FRED C. DAWE,  
 CLIFTON W. BARTLETT,  
 GEORGE N. GARDINER,  
 Committee.

## AUDITOR'S TRIAL BALANCE.

JANUARY 4, 1897.

## DR.

New Bedford Water Works as public property,	\$1,200,000.00
Public property other than water works,	1,890,291.65
Sinking Fund Commissioners,	463,174.81
Appropriations, general, 1896,	47,096.10
"    "    1895,	24,627.00
"    "    1894,	21,686.85
"    "    1893,	14,861.17
"    "    1892,	8,142.28
"    "    1891,	2,082.33
Appropriations, special, 1896,	253,612.41
"    "    1895,	222,017.45
"    "    1894,	200,000.00
Commonwealth of Mass., chap. 62,	560.00
"    "    "    279,	1,472.61
"    "    "    301,	9,476.53
Real estate tax account,	952.79
City Treasurer, balance of cash,	396,379.93
	<u>\$4,756,433.91</u>

## CR.

Trust funds,	\$117,100.00
Bonds,	2,452,000.00
Balance of public property,	1,001,466.46
Cemeteries, sale of lots,	462.51
Cemetery funds,	26,734.93
Engineering department, grade crossings,	414.88
Fire department,	178.50
Fire department, underground wires,	113.90
Free Public Library, dog fund,	197.22
Free Public Library, trustees :	
James B. Congdon fund,	185.09
George O. Crocker fund,	292.92
Oliver Crocker fund,	31.73
George Howland, Jr., fund,	275.13
Sylvia Ann Howland fund,	1,612.65
Chas. W. Morgan fund,	61.61
Chas. L. Wood fund,	42.15

Land damages, widening Fourth street,	3,342.16
“ “ Purchase street,	3,023.57
“ “ Union street,	2,419.86
Pingree plan for benefit of the poor,	798.35
Free Public Library, reading rooms,	2,500.00
N. B. School Committee, Howland fund,	2,165.96
“ “ Bourne prize fund,	30.00
N. B. Water Works,	28,750.79
“ “ further water supply,	555,375.33
Public schools, dog fund,	2,287.58
Department of wharves,	1,127.17
Schoolhouse, Dartmouth st. and Dunbar's lane,	19,573.71
Schoolhouse, Phillips av. and Bowditch st.,	9,299.76
Receiving tomb, Rural cemetery,	723.20
Sewer, Bullard street, No. 3,	300.00
Sewer, Belleville avenue, No. 8,	288.80
Sewer, Fourth street, No. 4,	54.71
Sewer, Howland street, No. 3,	3,095.28
Temporary loan,	520,105.00 \$4,756,433.01

We have examined the foregoing and find it correct.

HENRY C. DENISON,  
ARTHUR L. BLACKMER,  
CLIFTON H. CORNISH,

Sub-committee of the Committee on Finance, appointed to examine the books and accounts of the Auditor and Treasurer.

Approved :

SAMUEL C. HUNT,  
HENRY P. JENNEY,  
CRAWFORD L. DUNHAM,  
OLIVER B. DAVIS,  
EDW. F. PENNEY,  
Committee of Audit.

ANNUAL REPORT  
OF THE  
COLLECTOR OF TAXES  
FOR THE YEAR 1896.





# STATEMENT

## OF THE

### COLLECTOR OF TAXES.

CITY OF NEW BEDFORD,  
COLLECTOR'S OFFICE,  
January 4, 1897.

*To the City Council of the City of New Bedford.*

GENTLEMEN :—Herewith I present a statement of my account as Collector of Taxes for the City of New Bedford for the year ending at this date.

#### STATEMENT FROM 1889 TO 1895, INCLUSIVE.

YEAR.	UNPAID JAN. 6, 1896.	PAID AND REMITTED.	UNPAID JAN. 4, 1897.
1889	\$8,031.02	\$8,031.02	
1890	7,038.76	7,038.76	
1891	9,610.75	9,610.75	
1892	10,592.93	10,592.93	
1893	12,370.02	187.36	\$12,182.66
1894	22,633.35	9,310.41	13,322.94
1895	34,309.92	11,044.63	23,265.29
	\$104,586.75	\$55,815.86	\$48,770.89

## TAXES OF 1896.

## CHARGES.

State tax,		\$36,067.50
County tax,		85,061.14
City tax,	\$745,800.00	
City tax, additional,	4,619.22	750,419.22
Overlay,		30,750.57
		\$902,298.43

## PAYMENTS.

Paid State Treasurer, State tax,	\$36,067.50
Paid County Treasurer, County tax,	85,061.14
Paid City Treasurer, City tax,	688,703.90
Abatements by the Assessors,	8,383.00
Discount, 5 per cent.,	40,642.23
Balance of taxes unpaid,	43,440.66
	\$902,298.43

The receipts under the discount of five per cent., from September 15 to October 15, inclusive, were as follows :

Gross receipts, other than national bank taxes,	\$772,319.16
Gross receipts, bank taxes,	41,239.55
Discount, 5 per cent.,	\$813,558.71
	40,642.23
Net receipts under the discount,	\$772,916.48

The State and County taxes of 1896, amounting to \$121,128.64, were \$11,453.31 in excess of 1895, and \$17,472.18 in excess of those of 1894, about  $13\frac{43}{100}$  per cent. of the whole levy.

The receipts in 1896 for corporation and other taxes from the Commonwealth of Massachusetts, were as follows :

Corporation taxes,	\$58,320.48
National bank taxes,	3,285.67
Tax on ships in foreign trade,	778.86
	\$62,385.01

The balance due from the State for corporation taxes not yet adjusted, is \$1,500.

Of the corporation and other taxes received in 1896, \$10,000 was applied, by order of the City Council, to the

usual discount on taxes; \$45,000 to appropriations general of 1896; and the balance, \$7,385.75, placed to the credit of unappropriated funds, as shown by the Treasurer's statement for the year.

In making the levy for 1897, the Collector hopes the Assessors may see the necessity of increasing the overlay to the full extent of the law (five per cent.), as it would make up in part for the great loss on poll taxes, so hard to collect, since no one is required to pay a tax to enable them to vote.

Respectfully submitted,

JAMES H. HATHAWAY,

Collector of Taxes.



ANNUAL REPORT  
OF THE  
CITY TREASURER  
FOR THE YEAR 1896.





# REPORT.

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CITY OF NEW BEDFORD,  
TREASURER'S OFFICE,  
January 4, 1897.

*To the City Council.*

GENTLEMEN :—In accordance with the provisions of the ordinances of the city, I herewith most respectfully present my account as City Treasurer for the year ending at this date.

JAMES H. HATHAWAY,  
City Treasurer.

## RECEIPTS.

## INCLUDING BALANCE, JANUARY 6, 1896.

Balance,		\$19,780.59
APPROPRIATIONS, GENERAL, 1890.		
From Collector, taxes 1890,		38.70
APPROPRIATIONS, GENERAL, 1891.		
From Collector, taxes 1891,		23.63
APPROPRIATIONS, GENERAL, 1892.		
From Collector, taxes 1892,		102.28
APPROPRIATIONS, GENERAL, 1893.		
From Collector, taxes 1893,		187.36
APPROPRIATIONS, GENERAL, 1894.		
From Collector, taxes 1894,		8,841.87
APPROPRIATIONS, GENERAL, 1895.		
From Collector, taxes 1895,		11,044.63
APPROPRIATIONS, GENERAL, 1896.		
From Collector, taxes under discount,	\$651,787.84	
From Collector, taxes since Oct. 15,	36,916.06	
From State Treasurer, corporation tax,	45,000.00	
From State Treasurer, corporation tax, for dis-		
count,	10,000.00	743,703.90

## APPROPRIATIONS, SPECIAL, 1894.

From sale of Water Bonds, payable April 1,		
1926, 4s,	\$400,000.00	
From sale of Water Bonds, payable January		
1, 1927, 4s,	400,000.00	800,000.00

## CEMETERIES—CARE OF LOTS.

Received from sundry persons for care of lots, as follows :

Oak Grove cemetery,	\$2,896.72	
Pine Grove cemetery,	102.79	
Rural cemetery,	2,679.46	\$5,678.97

Permanent care :

Oak Grove,	\$469.26
Pine Grove,	15.75
Rural,	809.36

Peckham West,	1.69		
Friends ground,	20.50	1,316.56	
	<hr/>	<hr/>	
Union street railway,	\$5.00		
Warren foundry,	31.66	36.66	7,032.19
	<hr/>	<hr/>	

## CEMETERIES—SALE OF LOTS.

From sundry persons, sale of lots, as follows :

Oak Grove cemetery,	\$1,575.00	
Pine Grove cemetery,	175.00	
Rural cemetery,	3,300.00	5,050.00

## COMMONWEALTH OF MASSACHUSETTS—CHAPTER 301.

From State Treasurer, disbursements for 1895, 9,167.00

## COMMONWEALTH OF MASSACHUSETTS—CHAPTER 279.

From State Treasurer, one-half disbursed in 1895, 1,474.40

## COMMONWEALTH OF MASSACHUSETTS—CHAPTER 62.

From State Treasurer, burial of soldiers and sailors, 175.00

## ENGINEERING DEPARTMENT.

Frost & Adams, maps, &c., 15.90

## DEPARTMENT OF WHARVES.

From sundry persons, rents and wharfage, 1,553.95

## FIRE DEPARTMENT.

James H. Nuttall, second audit,	\$2.40	
M. J. Galvin, second audit,	6.00	
J. A. Boniere, second audit,	12.80	21.20

## FREE PUBLIC LIBRARY.

## TRUSTEES SYLVIA ANN HOWLAND BEQUEST.

From Public Debt, interest on trust funds, 3,000.00

## TRUSTEES GEORGE HOWLAND, JR., GIFT.

From Public Debt, interest on trust funds, 96.00

## TRUSTEES GEORGE O. CROCKER BEQUEST.

From Public Debt, interest on trust funds, 400.00

## TRUSTEES CHARLES L. WOOD BEQUEST.

From Public Debt, interest on trust funds, 80.00

## TRUSTEES OLIVER CROCKER BEQUEST.

From Public Debt, interest on trust funds,	60.00
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## TRUSTEES CHARLES W. MORGAN BEQUEST.

From Public Debt, interest on trust funds,	60.00
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## TRUSTEES JAMES B. CONGDON GIFT.

From Public Debt, interest on trust funds,	30.00
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## LIBRARY—DOG FUND.

From County Treasurer, one-half amount received for dog licenses,	1,239.42
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## INCIDENTALS.

From Assessors Department, clerk hire,	228.25
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## PARK COMMISSIONERS.

Gilbert B. Borden, flagstaff,	\$3.00	
N. E. Stanley, lumber,	5.17	
Charles F. Lawton, sale of grass,	75.00	83.17

## PUBLIC DEBT.

Water Works, rates to pay bonds,	\$20,000.00	
Water Works, rates to pay interest,	12,000.00	
Commissioners of Sinking Funds, bonds,	25,000.00	57,000.00

## REAL ESTATE TAX ACCOUNT.

Patrick Behan et al., sewer tax,	\$104.14
P. and Ann Behan, sewer tax,	104.14
William H. Bingley, tax 1893,	6.95
William Boyle, sewer tax,	28.93
Thomas Croacher estate, tax 1888,	13.68
Thomas Croacher estate, tax 1891,	14.87
Thomas Croacher estate, tax 1893,	14.75
Charles E. Dana, tax sale,	30.00
Joseph Delano estate, et al., tax 1894,	63.04
M. F. Donnelly, sewer tax,	42.70
Timothy P. Donnelly, sewer tax,	34.44
Timothy Donovan estate, sewer tax,	91.67
Bartholomew Dowling, tax 1892,	23.18
Michael Dugan estate, tax 1892,	15.53
William B. Flagg, sewer tax,	35.46
Julien E. Fortin, tax 1893,	30.35
William D. Howland, tax 1894,	7.95
Joseph Owen estate, tax 1892,	23.38
Joseph Owen estate, tax 1894,	22.87

Phebe A. Packer, tax 1894,	5.83	
Sophia A. Potter, sewer tax,	15.00	
B T. Ricketson estate, tax 1894,	33.08	
William E. Spooner, tax 1890,	71.47	
Mary Webb, tax 1894,	32.48	
R. H. White, tax 1894,	27.17	893.06

## SCHOOLS—INCIDENTALS.

Amount returned, second audit,	.85
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## SCHOOL COMMITTEE.

Public Debt, income on S. A. Howland fund,	\$3,000.00	
W. E. Hatch, sale of books,	34.81	3,034.81

## SCHOOL COMMITTEE—PRIZE FUND.

Public Debt, Bourne fund,	60.00
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## SCHOOLS—DOG FUND.

From County Treasurer, one-half dog licenses,	1,239.41
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## PRINTING, BINDING AND STATIONERY.

Mercury Publishing Co., second audit,	863.23
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## TEMPORARY LOAN.

New Bedford Five Cents Savings Bank,	\$50,000.00	
Commissioners of Sinking Funds,	4,000.00	
Blake Brothers & Co.,	100,000.00	
Estabrook & Co.,	100,000.00	
Estabrook & Co.,	100,000.00	
Estabrook & Co.	215,000.00	
National Banks and Safe Deposit,	42,000.00	
Commissioners of Sinking Funds,	5,300.00	
Commissioners of Sinking Funds,	95,105.00	
F. S. Moseley & Co.,	125,000.00	
F. S. Moseley & Co.,	70,000.00	
Citizens National Bank,	20,000.00	
Merchants National Bank,	60,000.00	
N. B. Institution for Savings,	60,000.00	1,046,405.00

## UNAPPROPRIATED FUNDS.

From sundry persons and departments, labor and material furnished by the Board of Public Works,	\$35,066.99
From Collector, costs and interest, taxes,	2,070.36
From Collector, 1 per cent. for collecting state bank taxes,	421.07



From Collector, betterment taxes,	1,744.56	
From Collector, sewer taxes,	6,514.74	
From Committee on City Property, sale of land on Sherman street,	1,179.77	
From sundry sources, material furnished by Engineer department,	587.26	
From sundry sources, Fire department,	1,501.58	
From national banks, interest on deposits,	1,110.83	
From Board of Health, salary of inspector furnished by Police department,	1,006.70	
From County Treasurer, rent of court room for Third District Court,	475.00	
From Third District Court, fees,	5,926.96	
From Bristol County House of Correction, fees, &c.,	1,943.80	
From County Treasurer, city property,	54.70	
From City Clerk, license fees,	719.00	
From City Clerk, fees,	179.25	
From Board of Health, pig licenses, &c.,	63.00	
From sundry persons, fees for entering sewers,	796.00	
From Thomas Donaghy, wharfage,	381.44	
From sundry persons, accrued interest, &c.,	2,498.97	
From sundry persons, tuition,	823.04	
From Schools, sale of text books,	55.65	
From Sealer of Weights and Measures, fees,	276.08	
From Dr. D. C. Ashley, milk licenses,	129.00	
From W. D. Swan et al., Mill street extension,	274.24	
From sundry persons, peddlers' licenses,	175.00	
From W. H. Weaver, soldiers' relief,	127.21	
From State Treasurer, armory rents,	600.00	
From Veteran Firemen, rent of building,	75.00	
From A. D. Piper, rent of City Hall,	235.00	
From State Treasurer, corporation taxes,	6,127.64	
From State Treasurer, national bank taxes,	3,294.69	
From State Treasurer, tax on ships in the foreign trade,	\$778.86	
From sundry persons, liquor licenses :		
2 first and fourth class,	\$4,000.00	
5 innholders,	9,000.00	
41 first class,	53,300.00	
7 fourth class,	7,700.00	
9 club licenses,	2,700.00	
32 sixth class, apothecary,	32.00	
	<hr/>	
	\$76,732.00	
Less one-fourth to State,	19,183.00	57,549.00
	<hr/>	

From sundry sources, Poor department.

Cities and Towns :

Acushnet,	\$11.25	
Abington,	64.25	
Attleborough,	40.75	
Boston,	22.57	
Bourne,	7.00	
Chicopee,	15.00	
Dartmouth,	353.44	
Easton,	76.50	
Edgartown,	25.75	
Fairhaven,	3.50	
Fall River,	161.14	
Falmouth,	10.00	
Freetown,	8.50	
Framingham,	30.57	
Hanson,	52.50	
Hyde Park,	32.00	
Lawrence,	48.00	
Lowell,	23.35	
Marion,	63.00	
Mattapoissett,	4.00	
Middleborough	5.00	
Milbury,	10.00	
Milford,	27.25	
Nantucket,	84.80	
Orleans,	63.75	
Palmer,	115.00	
Pittsfield,	46.71	
Plymouth,	34.50	
Rochester,	59.00	
Salem,	119.14	
Southbridge,	6.50	
Taunton,	155.98	
Truro,	47.50	
Waltham,	1.50	
Wareham,	24.00	
Webster,	21.75	
Westport,	223.71	2,099.16
From sundry sources, Almshouse,		1,232.93
From sundry persons, Insane Hospital,		617.15
From farm produce, hay, &c.,		635.40
From County Treasurer, board,		101.43
From State Treasurer, support, burials, &c.,		1,547.17
		<hr/> 140,995.63

## NEW BEDFORD WATER WORKS.

## From Water Registrar :

Rates,	\$93,689.94	
Services,	3,848.82	
Mains,	2,900.33	
Meters,	1,474.49	
Incidentals,	24.96	
Mill piping,	669.20	
Pumping station,	3.50	
Shop work and hydrants,	51.13	
Sale of hay,	51.00	
Fines, off and on,	52.00	102,765.37

## NEW BEDFORD WATER WORKS—FURTHER SUPPLY.

## From sundry sources :

Premium on \$50,000—Bonds at 109.55,	\$4,775.00	
Premium on \$350,000—Bonds at 108.819,	30,866.50	
Premium on \$400,000—Bonds at 108.857,	35,428.00	
Sale of wood,	409.83	
Sundry other sales,	456.16	71,935 49
Receipts, including balance Jan. 6, 1896,		\$3,038,682.29
Expenditures. per warrants of the Mayor,		2,642,302.36
Balance Jan. 4, 1897,		<u>\$396,379.93</u>

## EXPENDITURES.

The payments for the year have been as follows :

Armories and military property,	\$3,889.19
Board of Assessors,	5,933.16
Board of Health,	18,809.39
Cemeteries,	24,741.52
Cemeteries, sale of lots,	4,798.56
Commonwealth of Massachusetts, chap. 62,	490.00
“ “ “ 279,	2,612.25
“ “ “ 301,	9,578.10
“ “ “ 447,	4,806.36
Court judgments,	8,653.75
Election funds,	4,121.54
Engineering department,	9,759.66
Engineering department, grade crossings,	2,067.20
Fire department,	72,799.44
Fire department, underground wires,	2,236.10
Free Public Library,	8,467.82
“ “ catalogues,	1,951.44
“ “ dog fund,	1,354.07
Free Public Library, Trustees :	
Jas. B. Congdon fund,	101.63
Geo. O. Crocker fund,	458.98
Oliver Crocker fund,	60.44
Geo. Howland, Jr., fund,	158.90
Sylvia Ann Howland fund,	2,900.18
Chas. W. Morgan fund,	141.68
Chas. L. Wood fund,	94.06
Highways and streets,	139,882.94
Const. city stable shed and fence,	1,325.35
Dredging docks,	60.16
Land damages, Brock avenue,	271.60
“ “ Fourth street,	1,157.84
“ “ Purchase street,	36,552.43
“ “ Union street,	20,045.14
Incidentals,	32,385.03
Pingree plan for benefit of poor, &c.,	701.65
Purchase of Leonard papers,	3,000.00
Revision of ordinances,	500.00
Kempton street schoolhouse and lot,	300.00
License Commission,	568.23
Lighting the streets,	46,569.47
Coggeshall street bridge, maintenance,	48.72

Coggeshall street bridge, repairs,	4,454.65
N. B. and Fairhaven bridge,	2,621.97
N. B. School Committee, Howland fund,	2,620.16
N. B. School Committee, J. Bourne prize fund,	60.00
N. B. Water Works,	123,870.69
N. B. Water Works, further supply,	636,367.09
Park Commission,	10,054.26
Permanent debt,	179,572.53
Platting system,	4,865.61
Police department,	101,807.10
Poor department,	40,126.00
Printing, binding and stationery,	6,005.91
Public Schools, incidentals,	44,424.34
.. .. pay of teachers,	115,706.04
.. .. repairs of buildings,	7,942.10
.. .. dog fund,	2,674.71
.. .. Clark street, furniture, &c.,	1,852.32
.. .. Merrimac street, repairs, &c.,	4,725.00
.. .. Middle street, boiler,	1,200.00
Real estate, tax account,	778.98
Rotch's wharf,	22,000.00
Taber's wharf,	30,000.00
Department of wharves,	808.22
City property,	20,394.88
Schoolhouse lot, Dartmouth street and Dunbar's lane,	4,900.00
Schoolhouse, Clark street,	24,230.37
Schoolhouse, Dartmouth st. and Dunbar's lane,	17,716.29
Schoolhouse, Phillips av. and Bowditch st.,	17,584.92
Receiving tomb, Rural cemetery,	4,464.86
Salaries,	23,582.94
Sewers, general account,	15,832.02
.. Acushnet avenue,	32.10
.. Acushnet avenue, No. 20,	244.91
.. Arnold street, No. 3,	248.34
.. Belleville avenue, No. 8,	111.20
.. Borden street, No. 3,	233.18
.. Bourne street, No. 1,	281.33
.. Bullard street, No. 2,	670.80
.. Bullard street, No. 3,	1,526.41
.. Butler street,	473.78
.. Chancery street, No. 3,	172.76
.. Chancery street, No. 4,	612.57
.. Cherry and Sixth streets,	1,034.76

Sewers, Chestnut street, No. 3,	424.69	
“ Coggeshall street, No. 4,	177.20	
“ Cottage and Grove streets,	842.62	
“ Davis street, No. 3,	1,698.10	
“ Dean street,	1,907.70	
“ Fourth street, No. 4,	145.29	
“ Front street, No. 11,	596.77	
“ Front street, No. 12,	819.42	
“ Hall street, No. 2,	220.51	
“ Harrison street,	364.75	
“ Howland street, No. 3,	12,904.72	
“ Kempton street,	1,191.07	
“ Locust street, No. 3,	278.01	
“ Merrimac street, No. 2,	420.80	
“ Mill street, No. 7,	2,569.55	
“ Nye street, No. 2,	1,275.24	
“ Orchard street, No. 5,	551.84	
“ Rotch street,	194.07	
“ Scott street,	10.50	
“ Shawmut avenue, No. 4,	170.58	
“ Union and Palmer streets,	335.40	
“ Vine street,	4.00	
“ Water street, No. 11,	377.26	
“ Weaver street,	833.91	
Sinking funds,	74,240.00	
Temporary loan,	586,300.00	
Unappropriated funds,	208.28	\$2,642,302.36



STATEMENT OF TRUST FUNDS HELD BY THE  
CITY.

## New Bedford School Committee :

One-half Sylvia A. Howland bequest, invested in Water Works construction account, at 6 per cent.,	\$50,000.00
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## Free Public Library, Trustees' account :

One-half Sylvia A. Howland bequest, invested same as the above,	50,000.00
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	<u>\$100,000.00</u>
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Free Public Library, Trustees' account. (Held as cash  
in the treasury) :

George Howland, Jr., gift at 6 per cent.,	\$1,600.00	
Charles W. Morgan bequest, at 6 per cent.,	1,000.00	
Oliver Crocker bequest, at 6 per cent.,	1,000.00	
James B. Congdon gift, at 6 per cent.,	500.00	
George O. Crocker bequest, at 4 per cent.,	10,000.00	
Charles L. Wood library fund, at 4 per cent.,	2,000.00	16,100.00

Cemetery Funds, perpetual care of lots. (Held as cash  
in the treasury at 6 per cent.) :

Balance, Jan. 7, 1895,	\$25,934.93
Receipts during year, (old ordinance,)	800.00

## Cemetery Funds, (deposited in savings bank)

Balance, Jan. 7, 1895,	\$3,475.00	
Receipts during the year,	4,500.00	34,709.93
		<u>\$150,809.93</u>

ANNUAL REPORT  
OF THE  
Sinking Fund Commissioners  
OF THE  
City of New Bedford,  
FOR THE YEAR 1896.



# REPORT

OF THE

## TREASURER OF THE SINKING FUNDS.

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CITY OF NEW BEDFORD,  
TREASURER'S OFFICE,

January 4, 1897.

*To the Commissioners of Sinking Funds of the City of  
New Bedford:*

GENTLEMEN:—Herewith I present a statement of my account as the Treasurer of the Sinking Funds for the year ending at this date.

Early in the year, \$21,000 City of Cleveland, Ohio, bonds; \$17,000 City of Brockton bonds, and \$10,000 City of Fall River bonds were disposed of; from the proceeds of which \$25,000 was paid to the City of New Bedford to provide for maturing Improvement bonds,—the balance, together with other funds in hand, were applied to the purchase of \$30,000 City of New Bedford sewer bonds  $3\frac{1}{2}$ s, payable October 1, 1906, as shown in my statement to you.

## APPROPRIATIONS

By the City Council and Water Board, to reduce municipal debt for the year, including other receipts, together with the value of sinking funds January 1, 1896.

Sinking Funds, January 1, 1896, \$373,200.84

For \$30,000 Sewer bonds, April 1, 1886, 20 years,	\$1,200.00
\$30,000 Sewer bonds, October 1, 1886, 20 years,	1,200.00
\$15,000 Sewer bonds, April 1, 1887, 20 years,	600.00
\$35,000 Improvement bonds, April 1, 1887, 10 years,	2,800.00
\$15,000 Improvement bonds, April 1, 1888, 10 years,	1,200.00
\$35,000 Sewer bonds, April 1, 1888, 20 years,	1,400.00
\$43,000 Sewer bonds, April 1, 1889, 20 years,	1,720.00
\$62,000 Improvement bonds, April 1, 1889, 10 years,	4,960.00
\$48,000 Sewer bonds, April 1, 1890, 20 years,	1,920.00
\$25,000 Improvement bonds, April 1, 1890, 10 years,	2,000.00
\$57,000 Sewer bonds, April 1, 1891, 20 years,	2,280.00
\$73,000 Improvement bonds, April 1, 1891, 10 years,	5,840.00
\$100,000 Sewer bonds, April 1, 1892, 20 years,	4,000.00
\$50,000 Improvement bonds, April 1, 1892, 10 years,	4,000.00
\$100,000 Park loan, June 1, 1892, 50 years,	1,000.00
\$108,000 Sewer bonds, April 1, 1893, 20 years,	4,320.00
\$62,000 Improvement bonds, April 1, 1893, 10 years,	12,960.00
\$32,000 Sewer bonds, April 1, 1894, 20 years,	1,200.00
\$89,000 Improvement bonds, April 1, 1894, 10 years,	7,120.00

\$58,000 Sewer bonds, April 1, 1895, 30 years,	1,160.00	
\$24,000 Improvement bonds, April 1, 1895, 10 years,	1,920.00	
\$20,000 Water bonds, April 1, 1888, 30 years,	600.00	
\$120,000 Water bonds, April 1, 1894, 30 years,	2,100.00	
\$200,000 Water bonds, gold, December 15, 1894, 30 years,	4,000.00	
\$400,000 Water bonds, gold, April 1, 1896, 30 years,	8,000.00	
\$400,000 Water bonds, gold, January 1, 1897, 30 years,	8,000.00	
\$85,000 Improvement bonds, March 1, 1897, 10 years,	6,800	
\$65,000 School bonds, March 1, 1897, 20 years,	2,040.00	
\$30,000 Sewer bonds, March 1, 1897, 30 years,	600.00	96,940.00
Premium from sale of \$21,000 Cleveland bonds, at 103.157,	\$662.97	
Interest accrued,	417.67	1,080.64
Premium from sale of \$17,000 Brockton bonds, at 106.276,	\$1,066.92	
Interest accrued,	198.34	1,265.26
Premium from sale of \$10,000 Fall River bonds, at 109.816,	\$981.60	
Interest accrued,	132.22	1,113.82
Premium, gain in purchase of \$30,000 New Bedford's '34s,		225.00
Interest on investments,		14,592.84
		<u>\$488,418.40</u>

## PAYMENTS.

To City Treasurer, Improvement bonds matured,	\$25,000.00	
Premium on bonds purchased,	210.00	
Interest accrued,	33.59	25,243.59
Sinking funds, net,		<u>\$463,174.81</u>



## TRANSACTIONS IN 1896.

Value of investments, January 1, 1896,		\$373,200.84
Cleveland, Ohio, bonds, 4s, sold at 103.157,	\$21,000.00	
Brockton bonds, 4s, sold at 106.276,	17,000.00	
Fall River bonds, 4s, sold at 109.816,	10,000.00	
City of New Bedford loan, at 5 per cent.,	4,000.00	
City of New Bedford loan, at 5½,	5,300.00	
American Loan & Trust Co., withdrawal,	755.46	58,055.46
		<hr/>
		\$315,145.38

## BONDS PURCHASED, LOANS, &amp;c.

City of New Bedford, Sewer bonds, 3½s, due October 1, 1906, at 99¼,	\$30,000.00	
City of Youngstown, Ohio, 5s, due May 1, 1899, at 103¼,	5,000.00	
City of Youngstown, Ohio, 5s, due May 1, 1900, at 104¾,	1,000.00	
City of New Bedford loan, at 5 per cent.,	4,000.00	
City of New Bedford loan, at 5½ per cent.,	5,300.00	
City of New Bedford loan, at 5¼ per cent., payable April 1, 1897,	35,000.00	
City of New Bedford loan, at 5¼ per cent., payable May 1, 1897,	60,105.00	
Interest on deposits in savings banks,	243.88	
Excess of deposits over January 1, 1896,	7,380.55	148,029.43
		<hr/>
Value of sinking funds at par,		\$463,174.81

AMOUNT OF SINKING FUNDS AND LOANS SE-  
CURED BY SAME IN EACH CLASS.

CLASS.	SINKING FUNDS.	LOAN.	WHEN DUE.	
3	\$16,757.79	\$30,000.00	April 1,	1906
4	14,911.92	30,000.00	October 1,	1906
5	7,468.25	15,000.00	April 1,	1907
6	34,794.00	35,000.00	"	1897
7	13,122.78	15,000.00	"	1898
8	15,309.89	35,000.00	"	1908
9	6,556.93	20,000.00	"	1918
10	16,345.91	43,000.00	"	1909
11	47,155.99	62,000.00	"	1899
12	15,631.55	48,000.00	"	1910
13	16,283.00	25,000.00	"	1900
14	15,575.89	57,000.00	"	1911
15	39,896.22	73,000.00	"	1901
16	22,342.47	100,000.00	"	1912
17	22,342.47	50,000.00	"	1902
18	4,388.89	100,000.00	"	1942
19	18,960.01	108,000.00	"	1913
20	56,880.06	162,000.00	"	1903
21	3,871.03	32,000.00	"	1914
22	22,968.12	89,000.00	"	1904
23	6,774.29	120,000.00	"	1924
24	28,961.62	1,000,000.00	Dec. 1 & April 1,	1897
25	2,398.01	58,000.00	April 1,	1925
26	3,969.10	24,000.00	"	1905
27	6,849.43	85,000.00	March 1,	1907
28	2,054.83	65,000.00	"	1917
29	604.36	30,000.00	"	1927
	\$463,174.81	\$1,711,000.00		

Respectfully submitted,

JAMES H. HATHAWAY,

Treasurer of the Sinking Funds.

# REPORT

OF THE

## Commissioners of the Sinking Funds.

---

NEW BEDFORD, MASS.,

March 24th, 1897.

*To the City Council of the City of New Bedford:*

GENTLEMEN:—At a meeting of the Commissioners of Sinking Funds of the City of New Bedford, held this day, it was

*Voted*, To adopt the foregoing statement of the Treasurer as the report of the Commissioners of Sinking Funds of the City of New Bedford, required by the Statutes of Massachusetts to be made annually to the City Council.

ANDREW R. PALMER,  
WILLIAM H. PITMAN,  
E. S. BROWN,  
Commissioners.

HENRY C. DENISON,  
CLIFTON H. CORNISH,  
Committee on Examination.

# INDEX OF ACCOUNTS IN DETAIL.

---

	Page.
Appropriations, General, 1896, . . . . .	9
Appropriations, General, 1895, . . . . .	10
Appropriations, General, 1894, . . . . .	10
Appropriations, General, 1893, . . . . .	11
Appropriations, General, 1892, . . . . .	11
Appropriations, General, 1891, . . . . .	12
Appropriations, General, 1890, . . . . .	12
Appropriations, Special, 1896, . . . . .	13
Appropriations, Special, 1895, . . . . .	14
Appropriations, Special, 1894, . . . . .	14
Armories and Military Property, . . . . .	15
Balance of Public Property, . . . . .	140
Board of Assessors, . . . . .	17
Board of Health—Garbage, . . . . .	18
Board of Health—Incidentals, . . . . .	18
Board of Health—Salaries, . . . . .	18
Bonds, . . . . .	141
Bonds of the City of New Bedford, . . . . .	142
Cemeteries, . . . . .	19
Cemeteries—Sale of Lots, . . . . .	22
Cemetery Funds, . . . . .	23
City Treasurer's Account, . . . . .	4
Coggeshall Street Bridge—Maintenance, . . . . .	72
Coggeshall Street Bridge—Repairs, . . . . .	72
Commonwealth of Massachusetts, chapter 62 of 1894, . . . . .	24
Commonwealth of Massachusetts, chapter 279 of 1889, . . . . .	24
Commonwealth of Massachusetts, chapter 301 of 1894, . . . . .	25
Commonwealth of Massachusetts, chapter 447 of 1890, . . . . .	25
Construction of Shed and Fence, City Stables, . . . . .	58
Court Judgments, . . . . .	26
Department of Wharves, . . . . .	114
Dredging Docks, . . . . .	58
Election Fund, . . . . .	26
Engineering Department, . . . . .	28
Engineering Department—Grade Crossings, . . . . .	30
Fire Department—Blacksmithing, . . . . .	33
Fire Department—Hay, Grain and Fuel, . . . . .	32

Fire Department—Horse Hire, . . . . .	33
Fire Department—Labor, . . . . .	33
Fire Department—Miscellaneous, . . . . .	35
Fire Department—Pay Rolls and Protecting Society, . . . . .	31
Fire Department—Repairs of Buildings, . . . . .	32
Fire Department—Repairs of Engines, Wagons and Harnesses, . . . . .	31
Fire Department—Supplies, . . . . .	33
Fire Department—Ventilation Engine House, No. 2, . . . . .	34
Fire Department—Underground Wires, . . . . .	37
Free Public Library—Dog Fund, . . . . .	39
Free Public Library—Salaries, . . . . .	38
Free Public Library—Subject Catalogue, . . . . .	39
Free Public Library—Supplies, . . . . .	38
Free Public Library—Trustees James B. Congdon Fund, . . . . .	40
Free Public Library—Trustees George O. Crocker Fund, . . . . .	41
Free Public Library—Trustees Oliver Crocker Fund, . . . . .	42
Free Public Library—Trustees George Howland, Jr., Fund, . . . . .	43
Free Public Library—Trustees Sylvia Ann Howland Fund, . . . . .	44
Free Public Library—Trustees Charles W. Morgan Fund, . . . . .	45
Free Public Library—Trustees Charles L. Wood Fund, . . . . .	46
Free Public Library—Reading Rooms, . . . . .	46
Highways and Streets—Crusher Stone, . . . . .	49
Highways and Streets—Miscellaneous, . . . . .	54
Highways and Streets—Paving Stone, . . . . .	54
Highways and Streets—Pay Rolls, . . . . .	47
Highways and Streets—Repairs of Boilers, Crushers and Rollers, . . . . .	48
Highways and Streets—Supplies and Materials, . . . . .	48
Highways and Streets—Teaming, . . . . .	47
Incidentals—Advertising, . . . . .	61
Incidentals—Assessors, . . . . .	61
Incidentals—Birth, Marriage and Death Returns, . . . . .	61
Incidentals—Clerical Help, . . . . .	62
Incidentals—Damages and Legal Expenses, . . . . .	62
Incidentals—Elections, 1895, . . . . .	63
Incidentals—Janitors, . . . . .	63
Incidentals—Labor and Cleaning, . . . . .	63
Incidentals—Layout of Bourne Street, . . . . .	63
Incidentals—Layout of Cove Street, . . . . .	63
Incidentals—Layout of North Front Street, . . . . .	63
Incidentals—Layout of Short Street, . . . . .	63
Incidentals—Layout of Summer Street, . . . . .	63
Incidentals—Lights and Fuel, . . . . .	64
Incidentals—Memorial Day, . . . . .	64
Incidentals—Miscellaneous, . . . . .	65
Interest as Payable Yearly, . . . . .	143

Kempton Street Schoolhouse and Lot, . . . . .	70
Land Damages—Widening Brock Avenue, . . . . .	59
Land Damages—Widening Fourth Street, . . . . .	59
Land Damages—Widening Purchase Street, Middle Street to Kempton Street, . . . . .	59
Land Damages—Widening Union Street, . . . . .	60
License Commission, . . . . .	70
Lighting the Streets, . . . . .	71
New Bedford and Fairhaven Bridge, . . . . .	73
New Bedford School Committee (Howland Fund), . . . . .	74
New Bedford School Committee (Jonathan Bourne Prize Fund), . . . . .	75
New Bedford Water Works, . . . . .	76
New Bedford Water Works—Further Supply, . . . . .	76
New Bedford Water Works (as Public Property), . . . . .	140
Park Commission, . . . . .	77
Pingree System for the Benefit of the Poor and Unemployed, . . . . .	69
Platting System, . . . . .	78
Police Department—Lights and Fuel, . . . . .	80
Police Department—Miscellaneous, . . . . .	80
Police Department—Pay Rolls, . . . . .	79
Police Department—Police Signal Service, . . . . .	79
Police Department—Salaries, . . . . .	79
Police Department—Supplies, . . . . .	79
Poor Department—Almshouse, . . . . .	83
Poor Department—Burials, . . . . .	88
Poor Department—Cities and Towns, . . . . .	88
Poor Department—Groceries, . . . . .	85
Poor Department—Lunatic Hospitals, . . . . .	88
Poor Department—Miscellaneous, . . . . .	89
Poor Department—Physicians and Medicine, . . . . .	88
Poor Department—Wood and Coal Yard, . . . . .	89
Printing, Binding and Stationery, . . . . .	90
Public Debt—Bonds Paid and Interest, . . . . .	136
Public Property (other than Water Works), . . . . .	140
Public Schools—Clark Street, Furniture and Furnishings, . . . . .	111
Public Schools—Books and Stationery, . . . . .	91
Public Schools—Dog Fund, . . . . .	110
Public Schools—Lights and Fuel, . . . . .	92
Public Schools—Merrimac Street, Repairs and Alterations, . . . . .	112
Public Schools—Middle Street, new Boiler, . . . . .	112
Public Schools—Miscellaneous, . . . . .	94
Public Schools—Pay Rolls, Janitors and Truant Officers, . . . . .	91
Public Schools—Pay of Teachers, . . . . .	97
Public Schools—Repairs of Buildings, . . . . .	106
Public Schools—Repairs of Heating Apparatus, . . . . .	92



Public Schools—Repairs of Schoolhouses, . . . . .	92
Public Schools—Salaries, . . . . .	91
Public Schools—Supplies, . . . . .	92
Purchase of Rotch's Wharf, . . . . .	113
Purchase of Taber's Wharf, . . . . .	113
Repairs of City Property, . . . . .	114
Real Estate Tax Account, . . . . .	113
Receiving Tomb, Rural Cemetery, . . . . .	117
Salaries, . . . . .	119
Schedule of City Property, . . . . .	145
Schoolhouse, Clark Street, . . . . .	118
Schoolhouse, Dartmouth Street, . . . . .	118
Schoolhouse Lot, Dartmouth Street, . . . . .	118
Schoolhouse, Phillips Avenue, . . . . .	119
Sewers—General Account, . . . . .	121
Sewers—Lowering Acushnet Avenue, No. 18, . . . . .	122
Sewers—Acushnet Avenue, No. 20, . . . . .	122
Sewers—Arnold Street, No. 3, . . . . .	123
Sewers—Belleville Avenue, No. 8, . . . . .	123
Sewers—Borden Street, No. 3, . . . . .	123
Sewers—Bourne Street, No. 1, . . . . .	124
Sewers—Bullard Street, No. 2, . . . . .	124
Sewers—Bullard Street, No. 3, . . . . .	124
Sewers—Butler Street, . . . . .	125
Sewers—Chancery Street, No. 3, . . . . .	125
Sewers—Chancery Street, No. 4, . . . . .	126
Sewers—Cherry and Sixth Streets, . . . . .	126
Sewers—Chestnut Street, No. 3, . . . . .	126
Sewers—Coggeshall Street, No. 4, . . . . .	127
Sewers—Cottage and Grove Streets, . . . . .	127
Sewers—Davis Street, No. 3, . . . . .	127
Sewers—Dean Street, . . . . .	128
Sewers—Fourth Street, No. 4, . . . . .	128
Sewers—Front Street, No. 11, . . . . .	129
Sewers—Front Street, No. 12, . . . . .	129
Sewers—Hall Street, No. 2, . . . . .	130
Sewers—Harrison Street, . . . . .	130
Sewers—Howland Street, No. 3, . . . . .	130
Sewers—Lowering Kempton Street, . . . . .	131
Sewers—Locust street, No. 3, . . . . .	132
Sewers—Merrimac Street, No. 2, . . . . .	132
Sewers—Mill Street, No. 7, . . . . .	132
Sewers—Nye Street, No. 2, . . . . .	133
Sewers—Orchard Street, No. 5, . . . . .	134
Sewers—Rotch Street, . . . . .	134

Sewers—Scott Street, . . . . .	134
Sewers—Shawmut Avenue, No. 4, . . . . .	134
Sewers—Union Street, No. 7, . . . . .	135
Sewers—Vine Street, . . . . .	135
Sewers—Water Street, No. 11, . . . . .	135
Sewers—Weaver Street, . . . . .	136
Sinking Fund, . . . . .	137
Sinking Fund Commissioners, . . . . .	141
Temporary Loan, . . . . .	137
Trust Funds, . . . . .	138
Unappropriated Funds, . . . . .	139
<hr/>	
Auditor's Balance Sheet, . . . . .	149
Taxes and Valuation since 1877, . . . . .	144
<hr/>	
Statement of City Treasurer, . . . . .	157
Statement of Trust Funds, . . . . .	170
Statement of Collector of Taxes, . . . . .	151
<hr/>	
Amount of Sinking Funds and Loans Secured by same in each class, . . . . .	177
Report of Commissioners of Sinking Funds, . . . . .	178
Report of Treasurer of Sinking Funds, . . . . .	173



1896—CITY DOCUMENT No. 9.

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ANNUAL REPORT

OF THE

CHIEF OF POLICE,

OF THE

CITY OF NEW BEDFORD,

TO THE

CITY COUNCIL,

FOR THE

Year Ending December 31, 1896.

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CHIEF OF POLICE, GEORGE DOUGLASS.

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NEW BEDFORD:  
E. ANTHONY & SONS, Incorp., CITY PRINTERS.  
1897.



# REPORT.

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CITY OF NEW BEDFORD,  
OFFICE OF CHIEF OF POLICE,  
December 31, 1896.

*To the Honorable the Mayor and Gentlemen of the City Council.*

GENTLEMEN:—I have the honor to submit for your consideration the doings of the Police Department for the year ending December 31, 1896.

## TOTAL NUMBER OF ARRESTS, 2,104.

January,	145	August,	220
February,	136	September,	184
March,	152	October,	235
April,	192	November,	131
May,	147	December,	196
June,	201		—
July,	165	Total,	2,104
Males,	1,829	Americans,	978
Females,	275	Foreigners,	1,126
	—		—
Total,	2,104	Total,	2,104

Residents, 1,617. Non-residents, 487. Minors, 216.



## CLASSIFICATION OF CRIME.

Assault and battery,	181	Keeping common nuisance,	5
Assault, indecent,	1	Keeping noisy and disorderly	
Assault, felonious,	2	house,	17
Assault, with weapon,	1		
Attempt to break and enter,	2	Larceny,	118
Adultery,	2	Larceny, felonious,	4
Bastardy,	10	Malicious mischief,	6
Breaking, entering and larceny,	24	Manslaughter,	1
Breaking, entering and attempt			
to commit larceny,	4	Night-walking,	3
Begging,	1	Non-support,	48
		Neglected children,	7
Contempt of court,	11	Obtaining goods under false	
Cruelty to animals,	7	pretences,	2
Concealing mortgaged prop-		Obstructing an officer,	1
erty,	1		
Concealing personal property		Peddling without a license,	1
bought conditionally,	1	Practicing medicine without	
Crime against nature,	1	registration,	2
Disturbing the peace,	173	Receiving stolen goods,	2
Drunkenness,	1,282	Robbery,	1
Disturbing religious assembly,	1		
		Selling obscene literature,	4
Exploding bomb in public st.,	1	Stubborn children,	7
Embezzlement,	11	Selling mortgaged property,	1
Escaped prisoner,	1	Stealing a ride,	3
Evading hotel bill,	3	Surrendered by bondsmen,	1
Forgery,	1	Tramps,	1
Fornication,	4	Threatening,	2
Fraud,	2		
		Using indecent and profane	
Idle and disorderly,	33	language,	2
Insane,	30		
Incest,	3	Vagrants,	16
Indecent exposure,	8	Violation city ordinances,	4
Illegal sale of liquor,	1	Violation fishery law,	3
		Violation law of the road,	1
Keeping liquor nuisance,	20	Violation bicycle law,	2
Keeping liquor with intent to		Violation insurance law,	1
sell,	7	Violation oleomargarine law,	8

## NATIVITY OF PRISONERS.

United States,	978	Portugal,	86
British Provinces,	23	Poland,	5
Belgium,	1	Russia,	8
Canada,	235	Sweden,	13
England,	302	St. Helena,	2
France,	2	Scotland,	58
Germany,	12	Wales,	4
Italy,	11	West Indies,	2
Ireland,	350	Austria,	9
Norway,	3		

Arrests on warrants, 498. Commitments, 999.

## LODGERS, 2,398.

Males,	2,388	Americans,	1,320
Females,	10	Foreigners,	1,078
Total,	2,398	Total,	2,398

Residents, 11. Non-residents, 2,377. Minors, 59.

## NATIVITY OF LODGERS.

United States,	1,320	Norway,	2
British Provinces,	32	Portugal,	5
Canada,	88	Poland,	1
England,	311	Russia,	3
France,	6	Sweden,	23
Germany,	14	Scotland,	60
Italy,	6	Wales,	6
Ireland,	520	Denmark,	1

## PRIMARY DISPOSITION OF CASES.

Fined,	1,255
Recognized to keep the peace,	1
Committed to penal institutions,	275
Continued,	311
Continued on probation,	89
Defaulted,	4
Delivered to Superior Court,	
Delivered to out of town officers,	16
Delivered to Supt. Insane Hospital,	30
Delivered to keeper of House of Correction,	1
Laid on file,	1
Not guilty and discharged,	29
Nolle prossed,	23

Probably guilty,	33
Released without arraignment by order of the Court,	29
Defaulted,	4
Defaults taken off,	6
Paid costs,	1

### MISCELLANEOUS BUSINESS.

Amount of property reported stolen in the city,	\$9,537.94
Amount of property reported recovered,	7,485.93
Accidents reported,	46
Boxes found open,	1
Buildings found open and secured,	254
Court attendance,	2,056
Cases investigated,	3,941
Cattle impounded, 52; horses, 37,	89
Dangerous buildings reported,	4
Dangerous dogs reported,	11
Dangerous wires reported,	54
Defective police boxes reported, 158; fire alarm, 2,	160
Defective lamps reported,	84
Defective streets and sidewalks reported,	552
Defective gas-pipes reported,	4
Defective hydrants reported,	3
Defective water-pipes reported,	17
Dead bodies found,	6
Disturbances suppressed,	474
Dogs killed,	25
Dog notices served,	280
Fire alarms given,	2
Fires extinguished without alarm,	30
Horses killed,	
*Horses found cast,	53
Intoxicated persons helped home,	41
Lost children found and returned,	275
Liquor search-warrants served,	19
Lights reported out—electric,	1,294
“ “ gas,	518
“ “ naphtha,	2,123
Notices served,	431
Street obstructions reported,	102
Street obstructions removed,	154
Stray teams put up,	65
Sick and injured persons assisted,	146
Water running to waste,	165
Extra hours duty,	3,516½

## ROSTER OF THE POLICE DEPARTMENT.

RANK.	NAME.	YEARS SERVICE.
Chief,	Douglass, George	3
Captain,	Wilber, James L.	24
Captain,	Allen, Timothy C.	10
Lieutenant,	Adams, Lemuel D.	22
Lieutenant,	Bryant, Seth E.	19
Lieutenant,	Comstock, Thomas W.	18
Lieutenant,	Fay, Thomas	10
Lieutenant,	Jones, Arthur H.	14
Lieutenant,	McBay, Charles L.	8
Lieutenant,	Taft, Thomas J.	16
Lieutenant,	Wing, Joseph B.	16
Inspector,	Hathaway, Franklin L.	18
Inspector,	Parker, John C.	12
Clerk,	West, Henry N.	8
Patrolman,	Allen, Edgar W.	9
Patrolman,	Allen, Edward	3
Patrolman,	Allen, Robert N.	2
Patrolman,	Almond, Walter	4
Patrolman,	Almond, Jr., William	2
Patrolman,	Arnett, Henry	6
Patrolman,	Arnett, James W.	20
Patrolman,	Aldrich, Oscar F.	1
Patrolman,	Atwood, William W.	1
Patrolman,	Brownell, Milton A.	10
Patrolman,	Callanan, Thomas F.	4
Patrolman,	Cannavan, Patrick	22
Patrolman,	Clark, Ulysses L.	3
Patrolman,	Cox, James M.	4
Patrolman,	Cowing, William J.	2
Patrolman,	Cole, William	$\frac{1}{2}$
Patrolman,	Dahoney, Thomas	6
Patrolman,	Demers, Frank E.	4
Patrolman,	Deneen, Daniel	3
Patrolman,	Dodds, James	4
Patrolman,	Daley, Jeremiah E.	1
Patrolman,	Eldridge, Washington A.	13
Patrolman,	Enos, Frank	3
Patrolman,	Foley, Edmund	3
Patrolman,	Gendron, George E.	10
Patrolman,	Gifford, Charles E.	6
Patrolman,	Hutchinson, John J.	1
Patrolman,	Howland, William A. E.	$\frac{1}{2}$
Patrolman,	Ivey, James A.	7
Patrolman,	Kenney, Patrick	2
Patrolman,	Kent, Chancellor	2
Patrolman,	Lee, Allen L.	13
Patrolman,	Lawrence, George R.	$\frac{1}{2}$
Patrolman,	Mather, Joseph	6
Patrolman,	McCarthy, Jeremiah	4
Patrolman,	McDonnell, Patrick	4
Patrolman,	Moynan, Robert	20
Patrolman,	Murphy, Cornelius J.	16

ROSTER OF POLICE DEPARTMENT.—*Continued.*

RANK.	NAME.	YEARS SERVICE.
Patrolman,	McEnnis, Robert B.	2
Patrolman,	McLeod, Samuel D.	2
Patrolman,	McDonnell, James	$\frac{1}{2}$
Patrolman,	Oliver, John F.	3
Patrolman,	Pinkham, George W.	3
Patrolman,	Raymond, Hiram E.	4
Patrolman,	Rhodes, Henry W.	9
Patrolman,	Rooks, John C.	10
Patrolman,	Roscoe, William E.	6
Patrolman,	Russell, Eugene F.	3
Patrolman,	Remington, Frank L.	1
Patrolman,	Ricketson, Harrison D.	2
Patrolman,	Sisson, Joseph DeL.	18
Patrolman,	Smith, Andrew J.	3
Patrolman,	Smith, Charles F.	2
Patrolman,	Sullivan, Timothy	21
Patrolman,	Sullivan, John D.	2
Patrolman,	Sweeney, Daniel P.	5
Patrolman,	Savage, James W.	2
Patrolman,	Stow, Harry D.	2
Patrolman,	Sylvia, Frank W.	1
Patrolman,	Taber, Jeremiah E.	5
Patrolman,	Underwood, Willis C.	3
Patrolman,	Vogel, George	17
Patrolman,	Weston, Stephen J.	4
Patrolman,	Wilson, Thomas H.	10
Patrolman,	Wixon, James A.	25
Patrolman,	Briggs, John W.	Probation
Patrolman,	Doherty, Edward P.	Probation
Patrolman,	Early, Edward C.	Probation
Patrolman,	Fowler, William	Probation
Patrolman,	Fanning, James F.	Probation
Patrolman,	Lowther, George H.	Probation
Patrolman,	McDonald, Daniel J.	Probation
Emergency Officer,	Kennedy, Patrick	13
Health Officer,	Macomber, William E.	23
Wagonman,	Jones, John M.	11
Wagonman,	Paige, George W.	16
Driver,	Jennings, Edward F.	11
Driver,	Douglass, Roland C.	$\frac{1}{2}$
Housekeeper,	Dayton, Luther M.	40
Housekeeper,	Bumpus, Henry W.	28
Housekeeper,	Russell, Elisha E.	19
Housekeeper,	Mitchell, William H.	12
Housekeeper,	Humphrey, Daniel J.	18
Housekeeper,	Stevens, Henry	21
Housekeeper,	Jones, Isaac M. [Special.]	27
Housekeeper,	Manchester, John B. [Special.]	11
Housekeeper,	Robbins, Charles H. [Special.]	17
Matron,	Bullard, Margaret S.	10
Janitor,	Pollock, John H.	1

## THE DEPARTMENT.

The Police Department as now constituted consists of 1 Chief, 2 Captains, 8 Lieutenants, 2 Inspectors, 1 Clerk, 1 Health Officer, 1 Emergency Officer, 72 Patrolmen, 2 Wagonmen, 2 Drivers, 9 Housekeepers, 1 Matron and 1 Janitor,—a total of 103, being an increase of 7 over last year.

The total expenses of the Department during the year were \$101,807.10.

The amount received from Third Bristol Court fees and paid to the City Treasurer, was \$7,885.76.

This amount, together with the amount received from the county for the rent of the court-room, should be placed to the credit of this Department, as formerly, as all of the work done in collecting the court fees, and the janitor and heating of the court-room are at its expense.

As our city is growing larger, and rapidly extending north and west, it will be necessary ultimately to divide the city into districts. I think, therefore, that any additions made either in stations, apparatus, or promotions, should be made with that end in view. I had this in mind when I recommended in my last report, that the office of "Sergeant of Police" be established.

This year the pay of patrolmen was established in three grades, instead of five grades as formerly, viz.: \$2 per day first year, \$2.50 per day second year, \$2.75 per day for the third year.

My reports each year have contained suggestions in regard to the older members of the force who have served the city faithfully for years, and by reason of age have become incapacitated for regular active service. I would suggest that a "veteran reserve force" be established, requiring shorter daily service, and lighter work for its members.

I would also suggest for your consideration, the advisability of retiring on half-pay members of the Department



who have served the city faithfully for a period of twenty-five years.

In my last year's report I said it would be my endeavor to bring the force to a higher standard of efficiency, and that I should expect the cooperation of the ranking officers of the force to bring about that result. To this end I have seen that the rules and regulations for the government of the force have been carried out. A few disciplinary offences have been committed, which I felt it my duty to call to the attention of the Committee on Police, and prompt action was taken, resulting in the "suspension from duty" of three patrolmen for short periods, and a reprimand by the Chief to others; the resignation of one patrolman was also accepted, pending a hearing on charges. I think, at this time, for efficient service and attention to duty, it has reached a fair standard.

#### RESIGNATIONS.

The following have resigned from the force during the year:

March 1st, Patrolman James Mitchell resigned; length of service, 21 years 2 months.

May 8th, Patrolman Peter Dumec resigned; length of service, 8 years, 6 months, 21 days.

July 1st, Lieutenant Ellery Peirce resigned; length of service, 16 years 6 months.

The above all served the city faithfully and well.

October 26th, Patrolman Albert N. Gray resigned, pending a hearing on charges; length of service, 3 years, 2 months, 25 days.

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#### IN MEMORIAM.

Patrolman John H. Williams died February 5th, having served the city for a period of 11 years 16 days.

A faithful and upright officer.

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## PROMOTION.

December 10th. Patrolman Charles L. McBay, having 7 years of faithful service to his credit, was promoted to Lieutenant of Police and assumed the duties of the office.

## APPOINTMENTS.

February 13th. The following named persons, having served a probationary period of six months, as required by the civil service rules of the Commonwealth, were permanently appointed police officers and constables of the city, viz.: Oscar F. Aldrich, John J. Hutchinson, Jeremiah E. Daley, Frank L. Remington, Frank W. Sylvia, and William W. Atwood.

July 1st. The following named persons were appointed police officers and constables of the city, for a probationary period of six months, under the civil service rules of the Commonwealth, viz.: William T. Cole, William A. E. Howland, George R. Lawrence and James McDonnell.  
December 10th. Edward P. Doherty, John W. Briggs, George H. Lowther, James F. Fanning, William Fowler, Daniel J. McDonald and Edward C. Early.

## CHANGES.

April 21. Driver William W. Atwood (at his own request) was transferred to regular patrol duty, and Roland C. Douglass was assigned to duty as Driver.

## SIGNAL SYSTEM.

The telephone system is not entirely satisfactory, it being impossible at times to understand telephone calls from patrolmen, or for them to hear orders issued to them from headquarters. It is important that an improvement should be made, if it can be done, to obviate this difficulty. The present number of boxes is 54,—an increase of two boxes

during the year. I would recommend an increase of two additional boxes during the ensuing year.

Duty calls registered,	301,151
Telephone calls registered,	28,302
Wagon calls registered,	1,047
	<hr/>
Total calls registered during the year,	330,500
Ambulance calls (not registered),	121
	<hr/>
Total,	330,621

#### PATROL STATION AND APPARATUS.

The patrol station and apparatus, with the exception of the patrol wagon, is in good condition, and consists of one patrol wagon, one prisoners' van, one ambulance, one double-seated carriage, one top-buggy, one sleigh, and three horses.

The patrol wagon is at least one-third heavier than is necessary, and an expensive one to run; and I would recommend the purchase of a lighter and more modern one.

The addition of rubber tires would add to the comfort of those for whom it is used, many being in such condition as to require the easiest and most comfortable method of conveyance. Of the 121 calls during the year, many of them are hospital calls, which we are always willing and pleased to give, as all emergency cases are received by them from the police department without any delay, and the best of treatment given them.

#### STATION HOUSES.

The station houses (except station 3) are in fairly good condition, and will not call for any large outlay during the year.

Station 3 is not worthy of the name and is unfit for use, and, if continued, requires a new building.

A change has been made at police headquarters, by which the day and night captains are located in the same room; although it is small and hardly adapted to the purpose for which it is used, the change makes it much more convenient than formerly.

Thirteen lockers have been added at station 5, thus giving each patrolman a separate place for his clothing.

I would renew my recommendation of last year, that a padded cell be furnished at the central station.

### WOMEN'S LOCKUP.

The women's lockup is in rather cramped quarters, and is badly ventilated. I think, with a small expense, the matter of ventilation might be improved.

Owing to sickness, the matron, Mrs. Margaret S. Bul-lard, has been unable for a number of months to attend to the duties of the office, and has been furnished a substitute to take her place. The duties of matron require a strong, rugged woman to properly take care of the lockup and the prisoners entrusted to her care.

Female prisoners during the year,	246
Female insane        "        "	4
Lost and neglected children,	22
Lodgers,	15
	<hr/>
	287

### IN CONCLUSION.

The office of Chief of Police is no sinecure; its cares and responsibilities are manifold and complex. A great many complaints are called to his attention during the year, many of them of such a nature as to require much time and labor to investigate; some of a frivolous nature, and others engendered from a spirit of revenge for private wrongs. In order to properly comprehend and

rightly act in each, much thoughtful care and consideration is required; in many cases, if the complaint is not adjusted to the entire satisfaction of the complainant, regardless of all considerations of justice, it is made the cause of fault-finding, and they are loud in their condemnation of the police, and much unjust criticism is heard. The Department as a whole have shown promptness and energy and been efficient in the discharge of their duty; and in the prevention and suppression of crime, will compare favorably with that of any other city.

I wish to express my thanks to the Honorable the Mayor and Committee on Police, to his Honor Judge Borden and Clerk Cobb of the Third Bristol Court, the members of the bar for their uniform courtesy and assistance, and to all others who have in any way been of assistance to the Department in the discharge of its duties. I would thank the ranking officers for their cooperation, and the patrolmen for their attention to duty.

Respectfully submitted,

GEORGE DOUGLASS,

Chief of Police.

IN BOARD OF ALDERMEN,

February 25th, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,  
City Clerk.

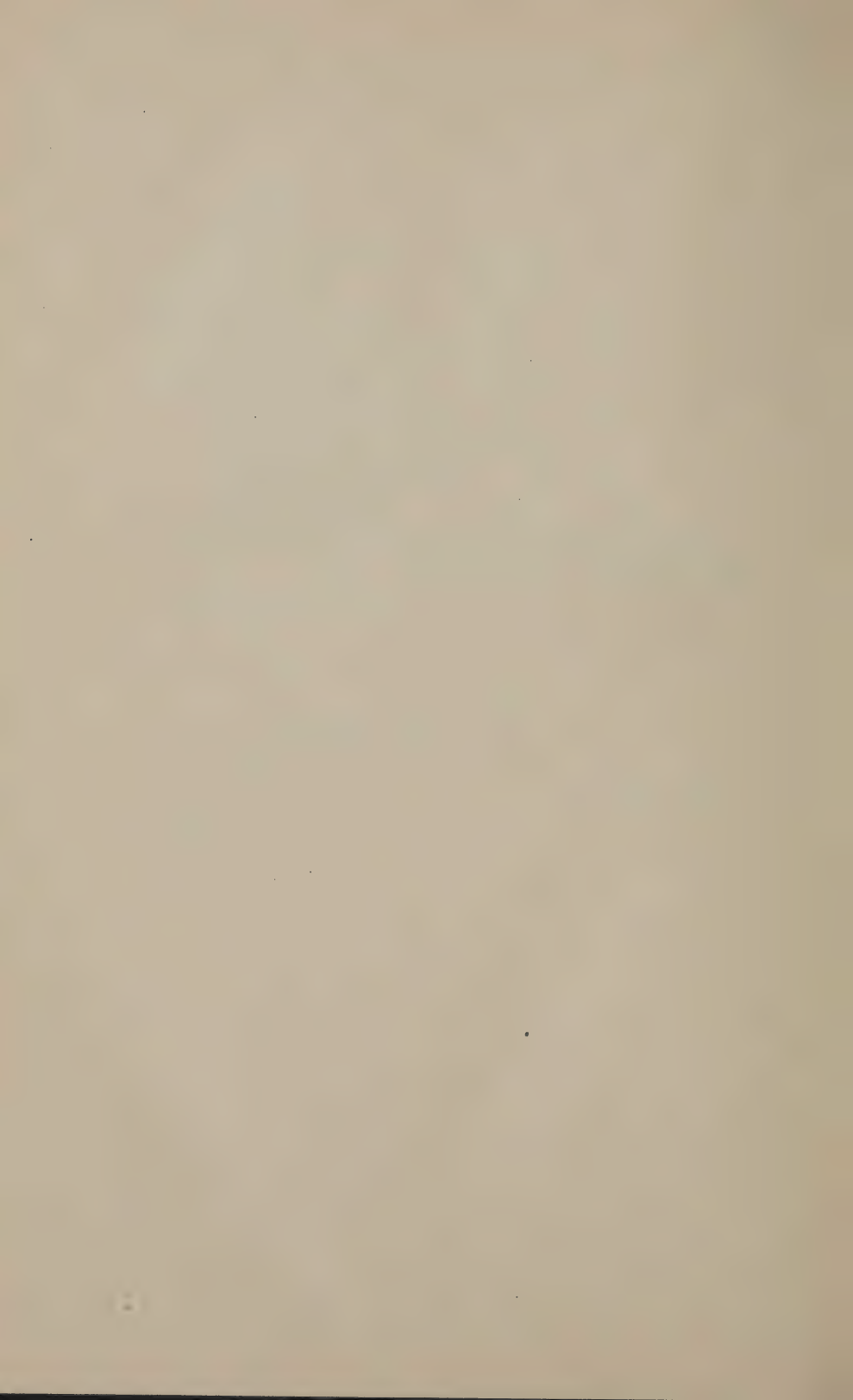
IN COMMON COUNCIL,

2d mo. 25th, 1897.

Concurred.

WM. A. MACKIE,  
Clerk.





1897—CITY DOCUMENT No. 10.

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EIGHTH ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

OF THE

CITY OF NEW BEDFORD

TO THE

CITY COUNCIL,

TOGETHER WITH THE REPORT OF THE

SUPERINTENDENT OF PUBLIC WORKS

TO THE BOARD,

FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.



# BOARD OF PUBLIC WORKS.

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Organized May 3, 1889, under Chapter 167 of the Acts  
and Resolves of 1889.

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## ORGANIZATION FOR 1896.

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DAVID L. PARKER, Mayor, Chairman.

ARTHUR L. BLACKMER, President of the Common Council.

GEORGE F. BARTLETT, term expires May, 1897.

SAVORY C. HATHAWAY, reappointed April, 1896; resigned Dec.  
2, 1896.

CHARLES O. BRIGHTMAN, term expires May, 1898.

JOHN ELDRIDGE, JR., appointed Dec. 10, 1896; term expires  
May, 1899.

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CLERK.

WILLIAM S. COOK.

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SUPERINTENDENT OF PUBLIC WORKS.

CHARLES F. LAWTON, Civil Engineer.

1896.

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NEW BEDFORD,

MASS.

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Population, census of Massachusetts, 1895, 55,254.

Valuation, \$56,281,117.50.

Area, about 17 square miles.

132 miles of accepted streets.

Two bridges over the Acushnet river: 7-9 old bridge maintained by New Bedford; 3-4 Coggeshall street bridge maintained by New Bedford.

2.1 miles of block paving, an area of 27,246 square yards.

16.987 miles of cobble paving, an area of 210,775 square yards.

38.77 miles of macadam paving, an area of 477,944 square yards.

66.44 miles of earth streets.

74.99 miles of curbing.

36.21 miles of flag sidewalk, an area of 109,875 square yards.

24.6 miles of concrete sidewalk, an area of 118,431 square yards.

0.19 miles of granolithic sidewalk, an area of 808 square yards.

55.908 miles of sewer, from 8 to 72 inches diameter.

\$907,920.57, cost of sewer system to date.

704 catch-basins.

142 eyeholes.

499 manholes.

27 sewer outlets into Acushnet river.

5 sewer outlets into Clark's Cove.

# REPORT.

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OFFICE OF BOARD OF PUBLIC WORKS,  
Jan. 2, 1897.

*To the Honorable the City Council of the City of New Bedford:*

GENTLEMEN:—The Board of Public Works herewith submit their eighth annual report for the year ending Jan. 2, 1897.

At the first meeting in 1896, the Board organized with David L. Parker, Mayor, chairman; Arthur L. Blackmer, President of the Common Council; George F. Bartlett, Savory C. Hathaway and Charles O. Brightman.

Savory C. Hathaway was reappointed and confirmed April 9, 1896, and resigned on account of ill-health, December 2, 1896. His associates here express with pleasure their appreciation of his clear judgment and thoughtful advice so freely given on all matters brought before the Board, and of his prompt and faithful attention to the manifold duties of the office for three years and a half.

December 10, 1896, John Eldridge, Jr., was appointed and confirmed as a member of the Board.

The department of streets and sewers, of which this Board has charge, is one of the most important in the city. It comes close to the welfare and daily life of our citizens, and is laborious and far-reaching in its variety and countless detail. As an indication of the time given to the work by the members of this Board, it may be stated that fifty-nine meetings of record have been held

during the year, exclusive of informal conferences and visits to localities where improvements were asked for.

The regular Tuesday night meetings have rarely adjourned before midnight. They have been attended by throngs of citizens, some of whom came to make complaints, but the large majority to attend hearings and to confer with the Board in regard to work of repair or construction wished for in the vicinity of their homes. In each case, the applicant has been given a patient hearing, and work ordered where in the judgment of the Board it was most needed. It is true this year and every year that the operations of this department have been limited by the size of the appropriation at hand; the growth of the city, with its resulting demand for streets, sidewalks, sewers, etc., makes any ordinary appropriation inadequate to meet the wants of the public.

But although at times the work demanded seems greater than the annual appropriation can properly care for, still, when the streets of New Bedford are judged by those of other cities, the comparison is very favorable; strangers who come here say that our streets are better than the average, and creditable to the city.

One of the most important matters brought before the Board was the widening of streets in the centre of the city, where, with increasing business and rapid growth, the congested condition was becoming more and more objectionable.

Purchase street from Kempton to Middle has been widened to sixty feet this year, and the work begun in 1895 in widening Union street, from Purchase to Acushnet avenue and Fourth street from Union to School, has been nearly finished. The Board has also passed an order widening Purchase street from Middle to Elm, which will pass with other unfinished matters to the charge of the authorities of 1897.



Everybody will admit that many of the streets in the centre of the city are too narrow ; the main objection to widening them is the large expense involved in taking valuable land and moving buildings. As each project comes up for judgment, the advantages must be weighed to see if the need is sufficiently urgent to warrant the outlay.

Owing to the completion of the new crusher plant, the amount of macadam laid the past year exceeds that of any previous year, and can be considered as approximating the capacity of our present plant. The plan of stocking up a large amount of crusher stone during the winter is a wise one, as there is always considerable time during the summer, when, owing to a press of other work, farmers can haul but little stone.

While a large part of the work of each year must be in the line of repairs, we believe that the Board should constantly have in mind the improvement of our country roads, and the final extension of macadam to the boundary, so that on whatever road a person might travel, a good roadway would be insured.

Many of the streets in the centre of the city can be greatly improved by the use of granite blocks. The advantage over cobbles has been often pointed out in former reports, but one great advantage is the increased cleanliness of the streets. The desirability of clean streets for sanitary reasons cannot be too strongly urged.

The new method of street cleaning, dividing the city into districts and keeping a force constantly employed in each district, has proved beneficial, and cleaner streets have been the result. This "block method" of maintaining streets can undoubtedly be applied with advantage to other kinds of work, as soon as the time comes when we can devote a large part of our annual appropriation to maintenance ; but at present so great a demand is made

for new construction, it is impossible to maintain as high a standard as is desirable.

During the year twenty-five streets have been accepted. To bring these streets to grade would require an average expenditure of about \$500. A too liberal policy in the matter of street acceptances would soon bring us to a position where so great an outlay would be needed to make new streets passable that we would be obliged to sacrifice in the way of maintaining many of our older ones. A worn-out street in the centre of the city is a greater reproach than an unimproved street in the outskirts.

Still, it is often desirable to accept a street while the land can be had without cost, and let the matter of improvement wait for more urgent necessity later; the layout into new territory of a street which it is expected will be a main thoroughfare sometimes gives an idea of what in a general way will be the arrangement in that locality, and all parties interested have an opportunity to govern themselves accordingly.

In these cases the Board has to stand firm, and refuse for the time the many requests for unlimited grading, sewers and other improvements, leaving such development for other years to come.

The ordinance recently passed, restricting to some extent the privileges of building on a contemplated street without consulting with the proper authorities, is an advance in the right direction, and cannot fail of being productive of beneficial results. Too often the department has found itself hampered in the way of improvements by a lack of conformity to any established grade. Many times also the Board, in accepting a street, have found buildings in the way, the removal of which caused expense, which under proper regulations would not have been incurred. The ordinance referred to requires that before building permits are granted, the line and grade of

a street shall be obtained from the City Engineer, so that hereafter buildings will be located more intelligently and with a better understanding of future street acceptances in the neighborhood.

The passage of a law has often been suggested allowing the city to define the layout of streets in new territory without actually accepting them and thus becoming responsible for their safe condition. At least one effort has been made to obtain this legislation, but it went no farther than the joint committee on cities.

The person who owns a tract of land is too apt to lay it out so that every foot can be sold, and with too little regard for the interests of the public or the needs of the future.

We believe that legislation is needed, which, while properly protecting private rights, would give our cities and towns authority to define street lines in advance of actual occupation, and that such a law would operate in practice in the direction of more intelligent and sensible street plans than has prevailed in the past.

Attention is respectfully called to the report of the Superintendent and the tables annexed, all of which is

Respectfully submitted.

DAVID L. PARKER,  
ARTHUR L. BLACKMER,  
GEORGE F. BARTLETT,  
CHARLES O. BRIGHTMAN,  
JOHN ELDRIDGE, JR.,

Board of Public Works.

The following is the report of William Downey, draw tender of the New Bedford and Fairhaven Bridge, for twelve months ending December 31, 1896, showing the number of vessels for which the draw has been opened.

1896.	Boats.	Schs.	Ships and Barks.	Tugs.	Barges.	Total.
January,	3	31		57	13	104
February,		13		32	18	63
March,		22		48	16	86
April,	35	32	2	85	31	185
May,	147	30		91	41	309
June,	160	28		70	32	290
July,	231	44		79	29	383
August,	296	48	1	60	26	431
September,	126	32	1	72	15	246
October,	123	27		56	23	229
November,	43	40		57	28	168
December,	7	37		83	40	167
	1,171	384	4	790	312	2,661

## APPROPRIATIONS AND EXPENDITURES, 1896.

	Appropriation.	Expenditure.
Highways and streets,	\$122,455.80	\$119,642.27
Construction of shed and fence, city stable,	1,200.00	1,325.35
Fourth street widening,	4,500.00	1,157.84
Purchase street widening,	4,000.00	989.43
Union street widening,	2,860.00	440.14
General sewers,	15,000.00	9,975.28
*Dredging docks,	100.00	60.16
*Coggeshall street bridge, repairs,	4,212.50	4,454.65
Coggeshall street bridge, maintenance,	500.00	48.72
New Bedford and Fairhaven bridge,	5,000.00	2,621.97
	\$159,828.30	\$140,715.81
Acushnet avenue sewer, lowered,	32.10	32.10
Acushnet avenue sewer, No. 20,	500.00	244.91
Arnold street sewer, No. 3,	400.00	248.34
†Belleville avenue sewer, No. 8,	400.00	111.20
Borden street sewer, No. 3,	300.00	233.18
Bourne street sewer, No. 1,	250.00	281.33
Bullard street sewer, No. 2,	1,000.00	670.80
†Bullard street sewer, No. 3,	1,500.00	1,526.41
*Butler street sewer,	475.40	473.78
Chancery street sewer, No. 3,	200.00	172.76
Chancery street sewer, No. 4,	700.00	612.57
Cherry and Sixth streets sewer,	1,000.00	1,034.76
Chestnut street sewer, No. 3,	1,000.00	424.69
*Coggeshall street sewer, No. 4,	177.20	177.20
Cottage and Grove streets sewer,	750.00	842.62
Davis street sewer, No. 3,	1,700.00	1,698.10
Deane street sewer, No. 1,	3,800.00	1,907.70
†Fourth street sewer, No. 4,	200.00	145.29
Front street sewer, No. 11,	600.00	596.77
Front street sewer, No. 12,	1,200.00	819.42
Hall street sewer, No. 2,	350.00	220.51
Harrison street sewer,	300.00	364.75
†Howland street sewer, No. 3,	16,000.00	12,904.72
Kempton street sewer, lowered,	2,000.00	1,191.07
Locust street sewer, No. 3,	400.00	278.01
Merrimac street sewer, No. 2,	600.00	420.80
*Mill street sewer, No. 7,	2,572.90	2,540.74
Nye street sewer, No. 2,	1,600.00	1,275.24
Orchard street sewer, No. 5,	1,500.00	551.84
Rotch street sewer,	300.00	194.07
*Scott street sewer,	134.00	10.50
Shawmut avenue sewer, No. 4,	250.00	170.58
Union and Palmer streets sewer,	500.00	335.40
*Vine street sewer,	4.00	4.00
Water street sewer, No. 11,	300.00	377.26
Weaver street sewer,	1,800.00	833.91
	\$204,623.90	\$174,643.14

† Cost incomplete.

\* Begun in 1895.

## HIGHWAYS AND STREETS.

Year.	Net Expenditure Appropriation for Year.	New Work.	Maintenance and Repairs.	Stock On Hand Decreased.	Stock On Hand Increased.
1894	\$101,263.49	\$35,023.85	\$62,700.69		\$3,538.95
1895	113,362.44	56,701.37	55,734.55		926.52
1896	119,642.27	67,953.37	57,469.25	\$5,780.35	

## GENERAL SEWERS.

Year.	Net Expenditure Appropriation for Year.	New Work.	Maintenance and Repairs.	Stock On Hand Decreased.	Stock On Hand Increased.
1894	\$14,714.60	\$4,508.70	\$9,811.91		\$393.99
1895	16,628.83	4,764.24	13,636.99	\$1,772.40	
1896	9,975.28	3,061.72	7,010.52	96.96	



# Report of the Superintendent.

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OFFICE OF SUPERINTENDENT,  
ODD FELLOWS' BUILDING,  
NEW BEDFORD, Jan. 2, 1897.

*To the Board of Public Works of the City of New Bedford:*

GENTLEMEN:—The eighth annual report of the work of this department, for the calendar year 1896, is herewith submitted. Recommendations in regard to the future work of the department seem to belong more properly with the Board of 1897, and are therefore omitted from this report.

The tables show the cost of work in detail. Very little work ordered during the year remains undone.

Owing to the completion of the new crusher at the City Yard, we were enabled to lay a larger amount of macadam at a marked reduction in cost.

Our streets are undoubtedly in better condition than they were one year ago, and it is a source of considerable satisfaction that such unusually expensive jobs as the Hathaway road and Acushnet avenue macadam have been completed.

A perusal of the tables will show that a larger proportion of the appropriation than usual went into actual street improvements.

Respectfully submitted,

C. F. LAWTON.



## STREETS ACCEPTED.

STREETS.	LOCATION.	Width. Feet.	Length. Feet.
Adams,	County street west,	40	546.68
Arnold Place,	Arnold street to Rotch Court,	45	421.81
Bentley,	Acushnet avenue to Bowditch street,	50	476.24
Bourne,	Fruit to Thompson,	40	336.32
Bourne,	Thompson to Spooner,	40	291.50
Bullard,	Acushnet avenue to Bowditch street,	50	580.09
Chancery,	Parker to Tilton,	40	650.88
Chestnut,	Locust to Robeson,	40	598.34
Cook,	Kempton to Mill,	40	158.95
Fair,	Bonney to Orchard,	50	171.00
Front,	Holly to Davis,	50	2,049.88
Front,	Davis street to Belleville road,	50	1,661.61
Hall,	Rivet to Thompson,	40	384.49
Merrimac,	County to Cottage,	50	919.97
Myrtle,	Clark to Penniman,	50	150.42
Orchard,	Rockland to Fair,	50	361.20
Orchard,	Fair to Washington,	40	379.30
Penniman,	Reynolds to Myrtle,	50	255.62
Reynolds,	Clark to Cedar Grove,	50	495.24
Reynolds,	Cedar Grove to Peckham,	50	232.03
Richmond,	Locust street north,	40	442.33
Short,	Grape to Allen,	50	531.76
Summer,	Parker to Robeson,	40	1,072.78
Thatcher,	Grit street to Cove road,	50	261.78
Tilton,	Shawmut avenue to Chancery street,	40	210.51
			13,640.73

Total, 25 streets. Total length, 13,640.73 feet, or 2.58 miles.

## STREETS WIDENED.

STREET.	LOCATION.	Amount of Widening.	Former Width.	Present Width.	Length.
Cove,	Cleveland street to E. French avenue,	By Curve.			
Purchase,	Elm to Middle,	16½ feet on west side.	43½	60	183.31
Purchase,	Middle to Kempton,	20 feet on west side.	40	60	302.03
					485.34

## BUILDING LINE ESTABLISHED.

Coffin avenue. Acushnet avenue to 665 feet east of Belleville avenue, 5 feet each side.

## MACADAM, NEW.

STREET.	LOCATION.	LENGTH.	AREA SQ. YARDS.	COST.
Campbell,	Between County and Sumner,	412	824	\$223.03
Cannon,	Between Second street and Acushnet avenue,	181	331.83	152.22
Cedar,	Between Morgan and Elm,	250	527.44	195.71
Cedar,	Between Elm and Middle,	176	361.55	118.81
Coffin,	Between Water and Second,	344	649.78	201.04
Cottage,	Square at Mill,	37	148	68.70
Cottage,	Between Parker and Locust,	449	1,147.44	507.99
Cottage,	Between Locust and Robeson,	620	1,665.11	512.63
Cottage,	Between Robeson and Austin,	488	1,350.55	444.62
Cottage,	Between Austin and Durfee,	531.45	1,358.15	381.22
Cove,	Between Water and County,	700	622.22	165.15
Delano,	Between Rockland and Grinnell,	936.9	1,824.87	749.61
Fifth,	Between Water and First,	166	345.83	113.50
Fifth,	Square at Russell,	40	111.1	53.87
Fifth,	Square at Madison,	35	128.33	76.07
Fifth,	Square at Walnut,	40	111.11	70.23
Fifth,	Square at School,	40	111.1	62.14
Fifth,	Square at Spring,	39.5	153.61	71.87
First,	Between Delano and Blackmer,	473	1,068.78	511.00
First,	Between Rivet and Potomska,	510	1,020	374.78
First,	Between Potomska and South,	541	1,082	435.25
Grinnell,	Between Crapo and Orchard,	465.50	931	218.47
Grinnell,	Square at Orchard,	56.5	160.26	32.32
Hathaway road,	Shawmut avenue west,	3,090	6,523.33	3,321.05
Madison,	Between Water and Second,	342	718	165.47
Maxfield,	Between Chestnut and Cottage,	185	349.44	136.40
Middle,	Between County and Sumner,	266	517.22	185.09

Mill,	Between County and Summer,	292	559.66	141.64
Mill,	Between Chestnut and Cottage,	210.5	421	122.03
Morgan,	Between County and Cottage,	723	1,389.76	395.65
Page,	Between Allen and Hawthorn,	1,220	3,117.77	1,015.43
Russell,	Between Fourth and Fifth,	203	383.44	185.88
Sawyer,	Between Acushnet avenue and Purchase street,	1,327.6	3,451.18	1,451.46
Second,	Between Cannon and Madison,	561	1,106.41	372.80
Sixth,	Square at Russell,	40	111.1	74.43
Sixth,	Square at Madison,	40	111.1	77.00
Sixth,	Square at Walnut,	25	111.11	96.45
Sixth,	Square at School,	25	111.11	83.31
Sixth,	Square at Spring,	25	111.11	83.53
Spruce,	Between North and Hillman,	264	528	146.59
State,	Between Weld and Clark,	422	844	302.56
Willis,	Between County and Summer,	454.5	871.12	427.29
Willis,	Between Summer and Chestnut,	230	451.11	120.84
Willis,	Between Chestnut and Cottage,	201.5	391.80	115.06
Willis,	Between Cottage and Cedar,	317	616.41	179.65
		17,995.95	38,829.24	\$14,939.84

Cost per square yard,

\$ .384

Cost per foot,

.83

Average tons of stone per square yard,

.371

## MACADAM REBUILT.

STREETS.	LOCATION.	LENGTH.	AREA SQ. YARDS.	COST.
Acushnet ave.,	Between Washburn and Cedar Grove,	330	396	\$159.62
Acushnet ave.,	Between Cedar Grove and Coggeshall,	564	1,253.33	343.54
Acushnet ave.,	Between Coggeshall and Sawyer,	329	277.82	71.67
Acushnet ave.,	Between Sawyer and Brooklawn park,	7,652	18,424.54	9,207.65
Coggeshall,*	Approach to bridge,	44	127.11	
Cottage,	Square at Court,	53	148.55	27.84
County,	Between Grinnell and Wing,	612	1,564	735.64
County,	Between Allen and Bedford,	387.5	990.27	305.23
County,	Between Arnold and Spring,	427	1,091.22	410.42
County,	Between Elm and Middle,	178.2	496.98	131.33
County,	Between Middle and Kempton,	309.3	790.43	210.88
County,	Between Kempton and North,	335.1	858.22	185.00
County,	Between North and Hillman,	242.7	631.02	215.52
County,	Between Campbell and Willis,	234	663	306.25
County,	Between Willis and Parker,	3,500	1,125.39	288.81
County,	Between Parker and Locust,	600	1,733.33	654.77
County,	Between Locust and Merrimac,	360	1,040	271.71
Dartmouth,	Between Rockdale avenue and Crapo lane,	957	2,585.83	775.31
Dartmouth,	Rockland street north,	651	591.68	125.81
Fifth,	Between Madison and Walnut,	290.6	544.74	160.87
Fifth,	Between Spring and Union,	207.4	410.19	136.38
Hawthorn,	Between County and Orchard,	551	1,071.40	269.78
Linden,	Between Pleasant and County,	374	997.33	330.48
Middle,	Between Summer and Cottage,	436	892	231.06
Morgan,	Square at Cottage,	39	105.40	66.27
Shawmut ave.,	Between Grand street and Hathaway road,	982	2,214.95	1,003.52
Sixth,	Between Russell and Cherry,	409	795.27	194.73

Smith, Walnut, Weld,	Between Chestnut and Cottage, Between Seventh and County, Between Acushnet avenue and Bowditch street,	247	466.55	131.99
		225	420	143.58
		282	313.33	150.25
		21,808.8	43,019.88	\$17,245.91

Cost per square yard,

\$ .40

Cost per foot,

.798

Average tons of stone per square yard,

.36

\*Charged to Coggeshall street bridge.

## MACADAM REPAIRED.

Total cost,

\$529.48



## PAVING NEW.

STREET.	LOCATION.	BLOCK.		COBBLE.		COST.
		Length. Feet.	Area. Sq. Yards.	Length. Feet.	Area. Sq. Yards.	
Bedford, Cedar, Fourth,* Front,† Purchase,‡ Union,§	Square at Fifth street, Between Hillman and Parker, Between Spring and Union, Between Wamsutta and Logan, Between Middle and Kempton, Between Acushnet avenue and Fourth st.;	30.7	29.85	1,697.55	1,980.87	\$55.34
				527	623.2	1,074.16
		605.5	1,241.96	327	641.8	3,117.58
				234.5	433.22	
		636.2	1,271.81	2,786.05	3,679.09	\$4,247.08

Total cost block paving, \$3,172.92  
 Cost per square yard, 1.854  
 Cost per square yard concrete foundation, 2.51  
 Total cost cobble paving, 1,074.16  
 Cost per square yard, .542

\*Cost under widening of Fourth street.  
 †Laid on concrete foundation.  
 ‡Cost under widening of Purchase street.  
 §Cost under widening of Union street.

## PAVING REPAIRED.

Cobble paving, \$3,124.82

## FILLING AND GRADING.

STREET.	LOCATION.	COST.
Abbott,	South of Cove,	\$300.73
Acushnet ave.,	Between Lund's corner and Freetown line,	291.60
Ashley,	South of Cove street,	158.45
Atlantic,	Between Arnold and Union,	155.32
Austin,	West of Shawmut avenue,	100.38
Blackmer,	Foot of,	219.25
Borden,	Between Bedford and Grove,	245.87
Bowditch,	Between Nye street and Nash road,	104.45
Cedar Grove,	East of Front,	286.29
Chancery,	Between Hillman and Maxfield,	572.55
Clark,	Between County and Reynolds,	179.70
Clark,	East of Mt. Pleasant,	273.00
Cleveland,	South of Cove street,	148.93
Coffin avenue,	Foot of,	201.67
Coffin avenue,	East of Belleville avenue,	1,549.71
Cottage,	Between Robeson and Austin,	137.33
Cotter,	Between Cedar Grove and Coggeshall,	101.20
Davis,	East of Purchase,	754.84
Dexter,	West of County,	330.75
Dexter,	West of Cottage,	180.35
Field,	Between Grape and Allen,	172.69
Fish Island,		200.52
Front,	North of Gifford,	122.53
Gifford,	East of Harbor,	355.58
Harbor,	South of Gifford,	631.85
Harrison,	South of Cove street,	357.25
Hemlock,	Between Fruit and Rockland,	116.85
Hicks,	Between Front street and Acushnet ave.,	198.42
Highland,	North of Durfee,	224.40
Hillman,	Foot of,	257.14
Howland dock		2,643.01
Jouvette,	Between County and Crapo,	521.48
Katharine,	Between County and Crapo,	263.65
Kempton,	Rockdale avenue west,	245.98
Lindsey,	Between Kempton and Hillman,	233.33
Merrimac,	Foot of,	145.19
Merrimac,	West of County,	106.50
Mill,	Between Ash and Liberty,	802.24
Mill,	East of Florence,	472.57
Mill,	West of Rockdale avenue,	135.92
Myrtle,	Between Clark and Penniman,	869.02
Nash road,	Between R. R. track and Mt. Pleasant st.,	233.40
North,	West of Park,	276.98
North,	West of Newton,	128.39
Nye,	West of Acushnet avenue,	126.00
Orchard,	Between Rockland and Washington,	320.62
Parker,	East of Rockdale avenue,	275.00
Phillips ave.,	West of Acushnet avenue,	408.62
Pierce,	Between West Elm and Kempton,	235.28

FILLING AND GRADING.—*Continued.*

STREET	LOCATION.	COST.
Pierce,	Between Court and West Elm,	147.79
Plainville rd.,	Bet. Mt. Pleasant st. and Dartmouth line,	154.30
Plummer ave.,	Between Acushnet ave. and Bowditch st.,	333.89
Pope's Island,		165.82
Pope,	East of Acushnet avenue,	1,719.09
Riverside ave.,	North of Coffin avenue,	839.17
Sawyer,	Between Acushnet avenue and Purchase,	292.08
Scott,	Between County and Crapo,	332.70
Shawmut ave.	Bet. Hathaway road and Plainville road,	104.24
Shore,	South of Cove road,	224.24
Tarkiln Hill rd	Between Acushnet ave. and Plainville rd.,	334.94
Tilton,	Between Shawmut ave. and Chancery st.,	191.33
Union,	Between Atlantic and Tremont,	232.52
Washburn,	Foot of,	1,272.03
Wilson,	Between Austin and Durfee,	132.90
Winsor,	Between County and Crapo,	248.85
Winsor,	Between Crapo and Bonney,	200.61
Sundry streets	Costing less than \$100,	4,430.64
		<u>\$28,729.92</u>
Deducted because charged to collecting ashes,	\$8,605.15	
“ “ “ “ Street cleaning,	2,322.22	10,927.37
		<u>\$17,802.55</u>

## GUTTERS—NEW.

STREET.	LOCATION.	LENGTH.	AREA. SQ. YARDS.	COST.
Allen,	South side, between Ward and Stone,	575	200.52	\$94.53
Arnold,	South side, across Tremont,	37	28.77	12.18
Atlantic,	West side, between Arnold and Union,	303	117.83	64.81
Austin,	South side, between Cedar street and Shawmut avenue,	964	374.88	204.65
Austin,	North side, between Cedar street and Shawmut avenue,	937.6	364.5	181.09
Bay,	Both sides, between Cottage and Columbia,	1,213	471.70	174.20
Bonney,	West side, between Thompson and Rockland,	153	59.5	28.20
Bullard,	North side, between Belleville avenue and Front street,	456	177.3	80.15
Bullock,	East side, between Austin and Willow,	200	77.77	37.56
Cedar Grove,	North side, between Front and Howard,	204	79.3	31.16
Chancery,	Both sides, between Union and Court,	442	171.8	99.68
Cherry,	West of Sixth street,	24	32	17.21
Clark,	Both sides, between County and Reynolds,	814	316.5	188.61
Clark,	South side, between Reynolds and Myrtle,	299	116.27	63.85
Clark,	North side, between Reynolds and Myrtle,	253	98.37	68.09
Clark,	South side, between Myrtle and Mt. Pleasant,	571.5	233.35	121.25
Clark,	North side, between Myrtle and Mt. Pleasant,	583.5	226.91	133.70
Clay,	South side, between Ward and Hickory,	128.4	48.83	25.39
Clay,	North side, between Columbia and Oak,	106	41.22	34.48
Coggeshall,	North side, between Purchase and State,	307	119.4	52.62
Columbia,	West side, between Clay and Allen,	526	204.56	101.05
Cottage,	Both sides, between Parker and Locust,	1,064	413.77	209.65
Cottage,	East side, between Locust and Austin,	1,066	414.52	231.06
Cottage,	West side, between Locust and Austin,	1,007.5	391.79	169.91
Cottage,	East side, between Austin and Durfee,	536	208.44	99.45
Cottage,	West side, between Austin and Durfee,	536	208.44	96.14
County,	East side, between Clark and Cedar Grove,	497	193.28	129.86

GUTTERS—NEW.—*Continued.*

STREET.	LOCATION.	LENGTH.	AREA. SQ. YARDS.	COST.
Crapo,	East side, between Division and Mosher,	77.5	25.83	\$9.22
First,	West side, between Potonska and South,	342	133	97.20
Hall,	West side, between Thompson and Rockland,	387	129	47.03
Hall,	East side, between Thompson and Rockland,	368.5	122.83	57.39
Hathaway road,	South side Shawmut avenue west,	3,044	1,183.77	654.23
Hickory,	North side Shawmut avenue west,	3,085	1,199.72	641.69
Hickory,	East side, between Dartmouth and Clay,	273	98.39	52.43
Hicks,	South side Harrison street west,	101	370.77	34.51
Homer,	South side, between Front street and Acushnet avenue,	1,645	644.67	266.11
Homer,	East side, between Parker and Locust,	138	53.66	19.92
Howard,	West side, between Coggeshall and Beetle,	341	132.6	59.53
Katharine,	Both sides, between County and Crapo,	1,799	699.8	302.86
Locust,	South side, between Cottage and Homer,	136.5	53.08	16.16
Locust,	Both sides, between Cedar and Richmond,	388	150.89	63.24
Morgan,	North side, between Richmond street and Shawmut avenue,	280	108.89	52.52
Mosher,	North side, between Cedar and Ash,	220	85.55	44.12
Myrtle,	South side, between County and Crapo,	1,037	403.28	199.33
Nelson,	East side, between Clark and Penniman,	152	59.11	33.45
Oak,	South side County street west,	160	62.22	34.78
Palmer,	East side, between Clay and Grape,	117	45.50	25.17
Palmer,	West side, between Elm and Kempton,	546	223.29	109.87
Park,	East side, between Elm and Kempton,	546	212.33	103.50
Park,	Both sides, between Arnold and Union,	1,059.2	411.91	191.51
Reynolds,	West side, between Linden and Weld,	489	190.16	91.22
Reynolds,	East side, between Linden and Weld,	492	191.40	101.20
Richmond,	East side, between Locust and Maitland,	130	50.55	32.63
Rotch,	West side, between Arnold and Union,	213	82.83	43.05

Rotch,	East side between Union and Court,	259	100.72	52.85
Sawyer,	South side, between Acushnet avenue and Bowditch street,	569	221.28	76.11
Sawyer,	North side, between Acushnet avenue and Bowditch street,	565	219.72	92.53
Sawyer,	South side, between Bowditch and Purchase,	745	289.72	124.71
Sawyer,	North side, between Bowditch and Purchase,	765	297.5	181.40
State,	East side, between Weld and Clark,	443	172.28	79.64
State,	West side, between Weld and Clark,	446	173.44	74.01
Union,	South side, between Chancery and Park,	360	140	73.40
Union,	South side, between Atlantic and Ocean,	258.5	100.52	55.28
Union,	South side, between Ocean and Tremont,	375	145.83	72.36
Ward,	West side, between Hickory and Clay,	193.6	75.29	39.15
Ward,	East side, between Hickory and Bay,	191	74.28	43.70
Ward,	West side, between Bay and Allen,	216.6	84.2	49.63
Warwick,	East side, between Thompson and Rockland,	368	122.66	36.35
Warwick,	West side, between Thompson and Rockland,	360	120	39.65
Willis,	South side, between County and Summer,	246	95.67	42.77
Willis,	North side, between County and Summer,	197	76.61	32.97
Willis,	North side, between Cottage and Cedar,	52	20.22	10.73
Willis,	Both sides, between Shawmut avenue and Chancery street,	428	142.6	93.72
Winsor,	Both sides, between County and Crapo,	1,353	526.16	172.33
		39,760.9	15,715.25	\$7,577.69

Cost per square yard,

\$ .482

Cost per foot length and average width,

.19

## GUTTERS REPAIRED.

Total cost,

\$1,946.53

Length in feet,

8,088.5

Area in square yards,

3,093.46

Cost per foot,

.147

Cost per square yard,

.384



## CROSSWALKS—NEW.

STREET.	LOCATION.	LINES.	STONE. Length. Feet.	COST.
Acushnet ave., Acushnet ave., Cedar Grove, Coggeshall, Cottage, Cove, Hillman, Mill,	West side, across Cedar Grove, West side, across Coggeshall, North side, across Acushnet avenue, East side, across Acushnet avenue, East side, across Merrimac, South side, across Stapleton, North side, across Acushnet avenue, North side, across Acushnet avenue,	Double, Double, Double, Double, Single, Double, Double, Single,	53.9 63 68.9 64 31 60.2 46 26	\$39.29 49.37 57.68 73.29 22.77 49.34 32.58 18.08
			413	\$342.40

## CROSSWALKS—NEW.

Cost under appropriations for widening streets.

Acushnet ave., Fourth, Fourth, High, Kempton, Purchase, Union,	West side, across Union, East side, across School, including driveway, East side, across Spring, including driveway, North side, across Purchase, South side, across Purchase, West side, across Middle, South side, across Acushnet avenue,	Double, Double, Double, Single, Single, Double, Double,	31.2 303.5 120.3 17.8 17.6 50 16.3	556.7
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## CURBING—NEW.

STREET.	LOCATION.	LENGTH. Feet.	COST.
Acushnet ave.,	Southeast corner Davis,	12.5	\$10.87
Acushnet ave.,	Northeast corner Davis,	12.5	10.65
Allen,	South side, between Ward and Columbia,	184.2	87.33
Allen,	South side, between Oak and Stone,	87.7	39.87
Allen,	Southwest corner Stone,	12.5	8.04
Arch,	East side, between Arnold and Union,	66.4	34.19
Austin,	South side, between Ashland and Cottage,	235.0	102.22
Austin,	South side, between Cottage and Cedar,	252	118.60
Austin,	South side, between Cedar street and Shawmut avenue,	608.2	291.65
Austin,	South side, between Cedar street and Shawmut avenue,	581.4	291.06
Austin,	North side, between Cedar street and Borden,	243.2	114.64
Bay,	South side, between Cottage and Borden,	253.4	132.26
Bay,	North side, between Borden and Ward,	183.2	80.34
Bay,	North side, between Borden and Ward,	170.7	69.81
Bay,	South side, between Ward and Columbia,	272	132.15
Bedford,	North side, between Ward and Columbia,	245.5	121.09
Bedford,	North side, between Cottage and Borden,	280.2	150.43
Bonney,	South side, between Borden and Ash,	113.5	57.64
Bonney,	West side, between Rivet and Thompson,	260	223.54
Bonney,	West side, between Thompson and Rockland,	150.5	77.66
Bonney,	Southeast corner Sherman,	12.5	9.29
Bonney,	Northeast corner Forest,	12.5	9.26
Borden,	West side, between Bedford and Grove,	157	97.85
Bowditch,	East side, between Coffin avenue and Davis street,	67.5	35.28
Bowditch,	East side, between Phillips avenue and Collet street,	258.5	137.56
Bullard,	South side, between Belleville avenue and Front street,	120	64.03
Bullard,	North side, between Belleville avenue and Acushnet avenue,	494.1	258.94

## CURBING—NEW.—Continued.

STREET.	LOCATION.	LENGTH. Feet.	COST.
Campbell,	North side, between State and County,	12.3	\$6.53
Campbell,	South side, between County and Summer,	126.2	63.13
Cedar,	Northwest corner Maxfield,	12.5	8.38
Chestnut,	East side, between Campbell and Willis,	191	88.77
Clark,	North side, between Reynolds and Myrtle,	227	135.53
Clark,	Southeast corner Myrtle,	12.5	9.88
Clark,	Southeast corner Ashland,	12.5	8.78
Clark,	Southeast corner Mt. Pleasant,	12.5	9.78
Clark,	Northeast corner Mt. Pleasant,	12.5	9.58
Clay,	South side, between Hickory and Ward,	125.4	69.89
Clay,	North side, between Columbia and Oak,	115.1	54.84
Columbia,	North side, between Cottage and Ash,	130	71.79
Columbia,	West side, between Clay and Allen,	407.9	188.15
Cottage,	Both sides, between Parker and Locust,	508.4	248.96
Cottage,	West side, between Locust and Austin,	517	235.04
Cottage,	East side, between Locust and Austin,	527.3	273.54
Cottage,	Southwest corner Robeson,	12.5	8.94
Cottage,	Northwest corner Robeson,	12.5	9.94
Cottage,	Southeast corner Robeson,	12.5	8.28
Cottage,	Southwest corner Willow,	12.5	8.89
Cottage,	Northwest corner Willow,	12.5	8.94
Cottage,	West side, between Austin and Durfee,	112.8	54.44
Cottage,	East side, between Austin and Durfee,	74.3	32.04
County,	Southwest corner Nelson,	12.5	8.38
County,	Northwest corner Nelson,	12.5	9.49
County,	Southwest corner Jouvett,	12.5	8.54
County,	Northwest corner Jouvett,	12.5	8.53

County,	Northeast corner Division,	12.5	9.89
County,	West side, between Katharine and Independent,	84.9	46.21
County,	Northeast corner Blackmer,	12.5	8.78
County,	Northwest corner Independent,	12.5	8.63
County,	East side Weld street north,	75.6	36.41
County,	Southeast corner Penniman,	12.5	8.05
County,	Southeast corner Cedar Grove,	12.5	8.84
Court,	South side, between James and Rotch,	110.0	56.75
Court,	Southeast corner Rotch,	12.5	8.51
Court,	Southeast corner Palmer,	12.5	10.98
Cove,	North side Harbor east,	215.5	115.61
Cove,	South side, between Cleveland and Salisbury,	460.6	242.69
Cove,	Northwest corner First,	12.5	6.98
Cove,	Northeast corner First,	12.5	6.98
Cove,	Northwest corner Second,	12.5	8.08
Crapo,	East side, between Division and Mosher,	12.5	39.32
Division,	South side, between County and Crapo,	73.5	18.45
Fourth,*	East side, Union street south,	36.8	
Gifford,	Northwest corner Front,	105.8	
Gifford,	Northwest corner Front,	12.5	8.88
Grove,	Northeast corner Front,	12.5	9.38
Hall,	South side, between Borden and Ash,	71.1	34.91
Harmony,	West side, between Thompson and Rockland,	302.5	146.90
Hickory,	East side, between Brock avenue and Social street,	321.5	166.15
Hickory,	North side, between Dartmouth and Ward,	204	94.15
Hicks,	North side, between Ward and Clay,	144	77.96
Homer,	South side, between Front street and Acushnet avenue,	442.6	128.04
Howard,	East side, between Parker and Locust,	149.8	85.17
Independent,	West side, between Coggeshall and Beetle,	334.8	173.27
James,	South side County street west,	420	267.59
James,	Southwest corner Union,	12.5	9.11
Katharine,	West side, between Union and Court,	204	104.09
Katharine,	South side, between County and Crapo,	135	108.11
Katharine,	North side, between County and Crapo,	463.5	227.28

## CURBING—NEW.—Continued.

STREET.	LOCATION.	LENGTH. Feet.	COST.
Kempton,	Northwest corner Ash,	12.5	\$8.71
Kempton,	North side, between Emerson and Chancery,	59.7	31.55
Kempton,	Northwest corner Park,	12.5	9.38
Kempton,	Southwest corner Pierce,	12.5	8.91
Kempton,	Southeast corner Pierce,	12.5	9.01
Kempton,	Northwest corner Newton,	12.5	8.21
Kempton,	Northeast corner Newton,	12.5	8.21
Kempton,	Northeast corner Florence,	12.5	9.01
Kempton,	Northeast corner Beech,	12.5	8.81
Linden.	South side County street west,	10.2	4.65
Lindsey,	West side Kempton street south,	252	129.78
Locust,	South side, between Chestnut and Cottage,	57.5	26.60
Locust,	South side, between Cottage and Homer,	149	69.07
Locust,	South side, between Cedar and Richmond,	244	123.40
Locust,	North side, between Cedar and Richmond,	61.7	33.78
Locust,	North side, between Richmond street and Shawmut avenue,	198.4	96.13
Locust,	Southeast corner Shawmut avenue,	12.5	8.38
Maitland,	Southwest corner Richmond,	12.5	9.38
Maitland,	Northeast corner Richmond,	12.5	8.88
Margin,	North side, between Richmond street and Shawmut avenue,	153	85.55
Mill,	West side, between Cove road and Cove street,	332	150.31
Mill,	East side, between Cove road and Cove street,	213.5	103.24
Morgan,	South side, between Park and Newton,	348	190.79
Morgan,	North side, between Park and Newton,	233.3	130.17
Morgan,	South side, between Cedar and Ash,	216.5	102.85
Mosher,	North side, between Cedar and Ash,	226.6	88.88
	South side, between County and Crapo,	581.8	267.55



Mosher,	25	17.99
Myrtle,	152	74.49
Nelson,	94	44.22
Oak,	186.4	88.25
Page,	25	16.56
Palmer,	83	42.76
Park,	41	23.66
Park,	12.5	7.98
Park,	12.5	7.58
Park,	12.5	8.38
Park,	12.5	8.18
Park,	12.5	7.91
Park,	8.3	6.32
Park,	12.5	7.68
Park,	12.5	7.88
Penniman,	391.3	218.95
Phillips avenue,	140.5	73.39
Reynolds,	315.4	164.18
Reynolds,	481.9	247.87
Reynolds,	23.5	14.23
Reynolds,	12.5	8.88
Richmond,	120.9	62.03
Richmond,	141.1	76.35
Sawyer,	250.8	132.38
Sawyer,	226.6	115.91
Sawyer,	86.3	50.93
Sawyer,	274.7	144.71
Shawmut ave.,	242.3	121.18
Shawmut ave.,	36.6	16.53
Social,	127	62.96
Social,	305.4	160.79
Stapleton,	178.6	87.13
State,	325.7	163.16
North side between County and Crapo,		
East side, between Clark and Penniman,		
South side County street west,		
North and east sides, between Clay and Allen,		
West side, between Allen and Hawthorn,		
East side, between Elm and Kempton,		
East side, between Arnold and Union,		
Southwest corner Mill,		
Northwest corner Mill,		
Southwest corner North,		
Northwest corner North,		
Southeast corner North,		
Northeast corner North,		
Southeast corner Hillman,		
Southwest corner Hillman,		
North side, between Purchase and County,		
North side Bowditch street east,		
West side, between Linden and Weld,		
East side, between Linden and Weld,		
Southeast corner Clark,		
Northeast corner Clark,		
West side Parker street north,		
East side, between Locust and Maitland,		
South side, between Acushnet avenue and Bowditch street,		
North side, between Acushnet avenue and Bowditch street,		
South side, between Bowditch and Purchase,		
North side, between Bowditch and Purchase,		
East side, between Locust and Maitland,		
East side Maitland street north,		
South side, between McGurk and Harmony,		
North side, between McGurk street and West French avenue,		
East side, between Cove road and Cove street,		
West side, between Austin and Linden,		

CURBING—NEW.—*Continued.*

STREET.	LOCATION.	LENGTH. Feet.	COST.
Thompson,	Southwest corner Hall,	12.5	\$7.58
Thompson,	Northeast corner Hall,	12.5	7.98
Thompson,	Southwest corner Crapo,	12.5	7.98
Thompson,	Southeast corner Crapo,	12.5	8.48
Thompson,	Northeast corner Crapo,	12.5	8.18
Thompson,	Southeast corner Bonney,	12.5	8.15
Thompson,	Northeast corner Bonney,	12.5	8.44
Union,†	South side Fourth street east,	73.8	
Union,	North side, between James and Rotch,	70.9	35.68
Ward,	West side, between Hickory and Clay,	188.6	102.13
Ward,	East side, between Hickory and Bay,	105.6	46.14
Ward,	West side, between Bay and Allen,	204.1	92.36
Ward,	East side, between Bay and Allen,	195.3	89.85
Warwick,	West side, between Thompson and Rockland,	358.8	171.89
Warwick,	East side, between Thompson and Rockland,	344.7	173.38
Willis,	North side, between Cottage and Cedar,	50.5	23.57
Winsor,	South side, between County and Crapo,	115.3	63.20
Winsor,	North side, between County and Crapo,	815.5	397.86
		23,583.0	\$11,973.77

\*Cost under widening of Fourth street.

†Cost under widening of Union street.

Cost per foot,

Cost per foot of stone,

Cost per foot of labor,

\$ .51

.35

.16



## CURBING RELAID.

Total cost,	\$678.78
Cost per foot relaid with new stone,	.512
Cost per foot relaid with old stone,	.115
Length feet of curbing relaid with new stone,	301.6
Length feet of curbing relaid with old stone,	3,099.7

## CONCRETE—NEW.

STREET.	LOCATION.	AREA. Square Yards.	COST.
Acushnet ave.,	East side, between Cedar Grove and Marvin,	237.91	\$87.17
Acushnet ave.,	West side, between Cedar Grove and Coggeshall,	119.15	53.34
Acushnet ave.,	East side, between Marvin and Coggeshall,	162.31	65.42
Acushnet ave.,	West side, between Marvin and Coggeshall,	68.32	40.02
Acushnet ave.,	West side Bentley street north,	38.36	28.11
Bay,	North side, between Borden and Columbia,	341.94	132.38
Bay,	South side, between Ward and Columbia,	118.53	47.71
Bonney,	West side, between Thompson and Rockland,	164.98	58.32
Borden,	East side, between Dartmouth and Bay,	335.19	127.30
Campbell,	South side, between County and Summer,	104.99	38.20
Campbell,	North side, between Cottage and Cedar,	270.78	98.65
Cedar,	East side, between Parker and Locust,	468.64	175.63
Chestnut,	East side, between Campbell and Willis,	177.41	76.87
Clay,	North side, between Columbia and Oak,	93.30	40.72
Clinton,	North side, between Cottage and Ash,	259.22	102.71
Coggeshall,	South side Acushnet avenue east,	87.91	35.43
Columbia,	West side, between Clay and Allen,	433.77	166.48
Cottage,	West side Allen street north,	36.80	13.80
Cottage,	East side, between Middle and Kempton,	43.13	16.51
Cottage,	West side, between Parker and Locust,	153.82	41.81
County,	Northwest corner Smith,	155.33	62.63
Cove,	South side, between Cleveland and Ashley,	474.92	182.28
Cove,	North side Harbor street east,	235.66	85.10
Elm,	North side Purchase street, east,	44.26	29.13
Foster,	East side, between North and Hillman,	233.40	97.18
Foster,	East side, between Hillman and Maxfield,	84.73	36.67
Fourth,*	East side, between School and Union,	183.03	
Front,	Southeast corner Cedar Grove,	205.65	85.48

Front, Gifford, Hickory, Hicks, Honer, Kemp-ton, Kemp-ton, Linden, Locust, Locust, Locust, Maitland, Morgan, Orchard, Palmer, Palmer, Parker, Pleasant, Pleasant, Purchase, Purchase, Reynolds, Reynolds, Richmond, Richmond, Second, Shawmut ave., Union, Weld,	West side, between Cedar Grove and Coggeshall, North side, between Harbor and Water, North side, between Dartmouth and Clay, South side, between Front street and Acushnet avenue, East side, between Parker and Locust, North side, between Emerson and Chancery, North side Liberty street west, North side, between Pleasant and County, South side, between Cottage and Homer, North side, between Cedar and Richmond, North side, between Richmond street and Shawmut avenue, North side, between Richmond street and Shawmut avenue, North side, between Cedar and Ash, East side, between Union and Court, East side, between Elm and Kempton, West side, between Elm and Kempton, South side, between County and Summer, Northeast corner Pope, West side, between Merimac and Hazard, West side, between High and Kempton, East side Hazard street north, East side, between Linden and Weld, West side, between Linden and Weld, West side, between Parker and Locust, East side Locust street north, West side, between High and Kempton, East side, between Locust and Maitland, South side, between Acushnet avenue and Fourth street, Northeast corner Bowditch street,	509.22 539.23 132.17 661.23 233.82 69.81 15.04 57.92 83.53 111.83 230.72 154.92 175.31 69.48 48.93 378.45 221.80 103.91 184.49 270.74 105.30 26.08 396.45 289.43 95.80 52.81 106.65 213.39 153.86 149.73	199.17 193.64 52.56 234.28 69.81 15.04 57.92 83.53 49.06 89.62 65.76 72.05 34.31 21.16 145.51 78.39 40.33 71.76 91.50 16.11 141.65 98.29 38.74 20.55 52.28 74.37 62.18
		11,323.67	\$4,194.62
*Cost under widening of Fourth street.		†Cost under widening of Purchase street. Cost per square yard, \$ .374	
		†Cost under widening of Union street.	

## CONCRETE REPAIRED.

Total cost,	\$830.20
Area in square yards, rebuilt,	1,255.02
Cost per square yard,	\$ .292
Area in square yards, topecoat.	697.23
Cost per square yard.	\$ .249

FLAGGING—NEW.

STREET.	LOCATION.	GRANOLITHIC. Square Yards.	NEW STONE. Square Yards.	COST.
Grove, Second,*	North side, between Cottage and Ash, West side, north of Dover,	24	191.10	\$319.59 43.20 \$362.79

\*Granolithic sidewalk laid by private parties. Cost above is rebate amounting to usual cost of laying flagwalk at the rate of \$1.80 per square yard.

Cost of stone per square foot,                 \$ .1525  
Cost per square yard,                         1.67  
Total cost,   319.59

FLAGGING REPAIRED.

Total cost,   \$1,515.99

## DRAINS LAID.

NUMBER.	SIZE PIPE.	LENGTH FEET.	COST.	AVERAGE COST. Per Foot.
1	4-inch,	8	\$2.90	.362
196	5-inch,	6,437	1,924.87	.299
159	6-inch,	7,724	2,672.20	.345
9	8-inch,	874	577.36	.66
365			\$5,177.33	
51 drains repaired, cost,			\$304.20	
120 drains cleared, cost,			294.89	
Total cost of drains, new, repaired and cleared,			5,776.42	

## RECAPITULATION—HIGHWAYS AND STREETS.

## GROSS EXPENDITURES.

Macadam, new,	\$14,939.84
Macadam, rebuilt,	17,245.91
Macadam, repaired,	529.48
Filling and grading,	17,802.55
Curbing, new,	11,973.77
Curbing, relaid,	678.78
Gutters, new,	7,577.69
Gutters, repaired,	1,946.53
Concrete sidewalks, new,	4,194.62
Concrete sidewalks, repaired,	830.20
Gravel and cinder sidewalks,	4,355.31
Paving, new,	4,247.08
Paving, repaired,	3,124.82
Flagging, new,	362.79
Flagging, repaired,	1,515.99
Crosswalks, new,	342.40
Crosswalks, repaired,	462.16
Drains, new, repaired, and cleared,	5,776.42
Collecting ashes,	8,722.80
Sweeping and cleaning streets,	5,176.86
Filling holes in streets,	614.80
Building bank wall, Abbott street,	175.94
Removing snow and ice,	1,708.96
Sanding icy walks,	361.21
Picking up small stones,	16.76
Carting stock to city yard,	345.99
Labor, handling stock,	125.08
Labor, city stable yard,	557.36
Filling city yard,	75.46
Macadam, city yard,	13.84
Stable office expenses and salaries,	2,188.87
Main offices expenses and salaries,	5,262.23
Janitor,	208.00
Registration clerk,	66.88
Advertising,	147.22
Carriage hire,	108.90
Tools, new and repaired,	243.15
Tool houses repaired,	40.55
Pumps repaired,	32.10
Street sweeper repaired,	16.43
Building and repairing fences,	601.11



Sundry small repairs,	171.73
Estimates on widening streets,	36.50
Printing and binding reports,	58.67
Suburban day,	89.56
Blanks, printing, stamps, etc.,	261.99
Derrick, Rotch wharf,	327.96
Expenses, Public Works convention, Chicago,	400.00
Marline, manila, lanterns, plow bolts, etc.,	70.09
Wharfage on curbing and crosswalks,	242.50
Miscellaneous items,	515.37

## STOCK, LABOR AND TEAMING :

General Sewers,	\$2,129.31	
Sundry sewers,	2,845.20	
New Bedford and Fairhaven bridge,	46.58	
Coggeshall street bridge,	325.50	
Sundry departments,	9,014.27	
Sundry persons,	4,411.22	18,772.08
Stock on hand, Jan. 4, 1897,		1,992.10
		<hr/> \$147,655.39

## CR.

Appropriation,	\$90,900.00	
Special appropriation,	24,100.00	
Transferred from General sewers,	3,000.00	
“ “ Sundry sewers,	4,455.80	
“ “ Unappropriated funds,	20,240.67	
Stock on hand, Jan. 6, 1896,	7,772.45	\$150,468.92
Expended,		147,655.39
		<hr/>
Transferred to balance,		\$2,813.53

## NET EXPENDITURE HIGHWAYS AND STREETS.

Appropriation,	\$90,900.00	
Special appropriation,	24,100.00	
Transfers,	7,455.80	\$122,455.80
Credit balance,		2,813.53
		<hr/>
Net expenditures,		\$119,642.27

## CONSTRUCTION OF SHED AND FENCE, CITY STABLES.

Building shed and fence,	\$1,325.35
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## CR.

Appropriation,	\$1,200.00	
Transferred to balance,	125.35	\$1,325.35

## WIDENING OF PURCHASE STREET.

Middle Street to Kempton Street.

Catch-basins,	\$120.36	
Concrete,	125.87	
Crosswalks,	71.68	
Curbing,	74.37	
Flagging,	11.26	
Grading,	293.17	
Gutter,	12.79	
Paving,	279.93	\$989.43

CR.

Appropriation,	\$4,000.00	
Expended,	989.43	
Carried forward to 1897,		<u>\$3,010.57</u>

## WIDENING OF FOURTH STREET.

School Street to Union Street.

Concrete,	\$91.00	
Crosswalks,	66.71	
Curbing,	91.48	
Driveways,	410.79	
Filling reservoir,	140.93	
Flagging,	17.78	
Grading,	69.56	
Gutter,	84.53	
Gravel walk,	2.55	
Paving,	182.50	\$1,157.84

CR.

Appropriation,	\$4,500.00	
Expended,	1,157.84	
Carried forward to 1897,		<u>\$3,342.16</u>

## WIDENING OF UNION STREET.

Acushnet Avenue to Fourth Street.

Concrete,	\$69.32	
Crosswalks,	48.71	
Curbing,	72.57	
Grading,	98.70	
Paving,	135.01	
Sidewalk.	15.83	\$440.14

CR.

Appropriation.	\$2,860.00
Expended,	<u>440.14</u>
Carried forward to 1897,	\$2,419.86

## NEW BEDFORD AND FAIRHAVEN BRIDGE.

Cobble paving repaired,	\$30.81
Salaries of draw-tender and assistant,	1,118.40
Repairs to woodwork,	1,386.20
Moving snow,	16.04
Filling washouts,	8.08
Piles,	36.00
Sweeping and cleaning,	4.71
Brooms, coal, manila, salt, oil,	21.73
	<u>\$2,621.97</u>

CR.

Appropriation,	\$5,000.00
Expended,	<u>2,621.97</u>
Transferred to balance,	\$2,378.08

## COGGESHALL STREET BRIDGE—REPAIRS.

King Bridge Co., contractors,	\$2,962.50
Osborn Co., C. E.,	15.00
Piles, etc.,	439.00
Labor, teaming, etc.,	1,038.15
	<u>\$4,454.65</u>

CR.

Brought forward from 1895,	\$2,987.50
Special appropriation,	1,225.00
Transferred to balance,	242.15
	<u>\$4,454.65</u>

## COGGESHALL STREET BRIDGE—MAINTENANCE.

Labor, opening draw,	\$37.23
Oiler, padlocks,	1.75
Repairs,	9.74
	<u>\$48.72</u>

CR.

Appropriation,	\$500.00
Expended,	<u>48.72</u>
Transferred to balance,	\$451.28

## DRAINS LAID.

NUMBER.	SIZE PIPE.	LENGTH. Feet.	COST.	AVERAGE Cost Per Foot.
36	5-inch,	1,154	\$367.24	\$.318
61	6-inch,	2,434	923.07	.379
1	8-inch,	154	68.01	.441
98			\$1,358.32	

12 drains repaired, cost, \$63.27

30 drains cleared, cost, 90.93

Total cost of drains, new, repaired, and cleared, 1,512.52

## CATCH-BASINS—NEW.

Cost,	\$2,695.71
Number,	43
Average cost,	\$62.69
Catch-basins discontinued,	1

## RECAPITULATION.

## GENERAL SEWERS.

Catch-basins built,	\$2,695.71
Catch-basins repaired,	181.96
Manholes repaired,	44.23
Eyeholes built (2),	44.24
Eyeholes,	7.90
Culvert, Kempton street,	294.65
Culvert and surface drains repaired,	67.84
Sewer construction,	27.12
Sewers repaired,	103.38
Office expenses and salaries,	1,041.81
Tools, new and repaired,	79.53
Catch-basins cleaned,	2,135.46
Catch-basins flushed,	6.50
Eyeholes and culverts cleaned,	7.90
Carting stock to city yard,	179.60
Blacksmithing,	562.53
Teaming,	14.10
Flushing and puddling sewers,	79.84
Repairs to steam drills,	56.86
Twine, hemp filling, lanterns, etc.,	73.07
Canvas and brush,	110.70
Hose, couplings, &c.,	305.41
Labor, handling stock at city yard,	142.93
Boilers repaired,	101.21
Hoisting engine repaired,	52.26
Registration clerk,	66.66
Stock furnished highways and streets,	368.64
“ Purchase street widening,	88.59
“ Park commission,	447.95
“ Sundry sewers,	4,426.41
“ Sundry persons,	447.95
General repairs,	60.42
Miscellaneous items,	93.10
Drains, new, repaired, and cleaned,	1,512.52
Stock on hand, Jan. 4, 1897,	3,206.79
Transferred to Highways and Streets,	3,000.00
	\$22,135.77

## CR.

Appropriation,	\$15,000.00	
Transferred from unappropriated funds,	5,856.74	
Stock on hand, Jan. 6, 1896,	3,303.75	\$24,160.49
Expended,		<u>22,135.77</u>
Transferred to balance,		\$2,024.72

## NET EXPENDITURES—GENERAL SEWERS.

Appropriation,		\$15,000.00
Transferred to Highways and Streets,	\$3,000.00	
Transferred to balance,	2,024.72	<u>5,024.72</u>
		\$9,975.28

## NEW SEWERS.

## DR.

Sundry sewers built,	\$33,927.33
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## CR.

Amount brought forward from 1895,	\$2,677.94
Sundry appropriations,	<u>39,317.66</u>
	\$41,995.60
Expended,	<u>33,927.33</u>
	\$8,068.27
Carried forward to 1897,	<u>3,738.79</u>
Transferred to Highways and Streets,	\$4,329.48

## DREDGING DOCKS.

Columbia Dredging Co.,	\$60.16
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## CR.

Brought forward from 1895,	\$100.00
Expended,	<u>60.16</u>
Transferred to balance,	\$39.84



## HIGHWAYS AND STREETS.

## CENTRE CRUSHER.

3,975 tons of stone, at 35.57 cents per ton.

26,533 tons of stone, at 43.53 cents per ton.

277 tons of stone, at 53.53 cents per ton.

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30,785 tons of stone crushed, at an average cost of 19.94 cents per ton exclusive of the cost of the stone.

## PORTABLE CRUSHER.

Shawmut Avenue, at Hathaway Road.

30 tons of stone, at 46.21 cents per ton.

50 tons of stone, at 8.12 cents per ton.

1,250 tons of stone, at 48.12 cents per ton.

Hathaway Road, west of Shawmut Avenue.

3,349 tons of stone, at 29.44 cents per ton.

Acushnet Avenue, at Brooklawn Park.

2,200 tons of stone, at 47.21 cents per ton.

159 tons of stone, at 33.97 cents per ton.

5,956 tons of stone, at 52.17 cents per ton.

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12,994 tons of stone crushed, at an average cost of 29.84 cents per ton exclusive of the cost of the stone.

## STABLE AND TEAMING ACCOUNT.

Stock on hand, January 6, 1896, (horses, teams, harnesses, hay, straw, grain, etc.,)		\$11,723.55
Gross cost for 1896,		30,492.20
		<hr/>
		\$42,215.75
Received from Water Works, (board of horses,)	\$841.14	
“ for stable dressing,	139.96	
“ for pigs,	76.50	
“ from sundry persons,	45.75	
Stock on hand, Jan. 4, 1897,	10,940.15	12,043.50
Cost of teaming, (including repairs of buildings, and re-valuation of stock on hand,)		30,172.25
Charged for work teams have done,		30,477.24

## TEAMING NOTES OF INTEREST.

Cost of hay, straw and grain,	3,737.26
Paid hostler, assistant, and night watchman,	2,421.16

## DEPARTMENT HORSES.

Working horses,	39	
Drawing horses,	2	
	<hr/>	
Total,	41	
Horse shoeing,		\$745.53
Harness repairs,		550.68

## CARTS IN CONSTANT USE.

Double carts,	13
Single carts,	15
Express wagons,	3
	<hr/>
	31

## EXTRA CARTS, ETC.

Sundown,	1	
Light driving wagons,	3	
Water carts,	2	
Jigger,	1	
Single gear,	1	
Derrick gears,	2	
Sleigh,	1	
Road scrapers,	2	
Street sweeper,	1	
Carts repaired and painted,		\$2,104.75
City stable repairs,		145.14
Cost of hired teams,		7,960.05

## BLACKSMITH SHOP.

Stock on hand, Jan. 6, 1896,		\$1,391.33
Gross cost for 1897,		3,145.77
		<hr/>
		\$4,537.10
Charged to sewers,	\$1,209.34	
General sewers,	571.80	
Park Commission,	66.30	
N. B. Water Works,	1.40	
Coggeshall street bridge,	14.14	
New Bedford and Fairhaven bridge,	9.25	
School Committee,	3.63	
Sundry persons,	22.09	
Stock on hand, Jan. 4, 1897,	1,308.90	3,206.85
		<hr/>
Cost of blacksmithing to highways and streets,		\$1,330.25

Permits granted by the Board in 1896 are as follows :

Obstructing sidewalks,	170
Disturbing the surface of streets,	181
Locations for poles,	104
Signs,	71
Hitching posts,	56
Awnings,	6
Stepping stones,	3
Flag poles,	3
Flags,	3
Planting trees,	35
Building obstructions,	18
Moving buildings,	38
Drains,	676
	<hr/>
	1,364

## HIGHWAYS AND STREETS.

	1891.	1892.	1893.	1894.	1895.	1896.
Macadam, new,	\$15,285.90	\$15,725.32	\$17,043.81	\$8,980.70	\$15,120.72	\$14,939.84
Macadam, repaired,	3,060.06	6,129.47	4,444.94	4,486.72	5,892.34	529.48
Macadam, rebuilt,	4,157.35	3,626.29	4,910.70	11,055.19	5,778.19	17,245.91
Streets filled and graded,	26,943.00	23,447.85	26,564.34	19,771.51	13,702.96	17,802.55
Curbing, new and relaid,	13,054.35	18,285.09	9,405.93	4,364.89	7,433.42	12,652.55
Gutters, new,	5,123.92	2,699.50	3,034.17	1,758.75	4,486.01	7,577.69
Gutters repaired,	1,790.14	2,608.61	1,978.86	3,238.71	901.36	1,946.53
Concrete sidewalks, new,	1,957.20	2,576.33	2,596.76	2,288.84	3,142.06	4,194.62
Concrete sidewalks, repaired,	2,583.60	2,023.20	2,252.86	1,987.82	860.38	830.20
Gravel and cinder sidewalks,	5,280.59	7,140.97	8,202.82	4,965.23	6,286.95	4,355.31
Paving, new,	11,639.17	5,580.15	18,540.33	2,806.81	8,456.51	4,908.79
Paving repaired,	5,315.72	6,306.04	7,557.33	7,934.11	3,182.74	3,124.82
Flagging, new,					782.10	362.79
Flagging, repaired,	3,167.56	3,793.63	4,380.69	2,522.48	1,503.05	1,515.99
Crosswalks, new,	1,762.89	3,027.63	255.09	624.36	361.67	342.40
Crosswalks, repaired,	542.72	566.60	1,656.32	645.58	684.80	462.16
Drains, new, repaired, and cleared,		9,097.40	8,992.02	5,219.87	4,576.53	5,776.42
Sweeping and cleaning streets,	5,786.23	7,849.93	8,247.18	7,002.15	7,409.40	5,176.86
Removing snow and ice,	432.87	890.59	2,313.98	334.98	479.23	2,009.17
Collecting ashes,	6,911.76	7,439.04	8,311.53	7,515.43	8,201.74	8,722.80
Trimming trees,	534.18	623.31	725.45	743.56	446.99	372.03
Filling holes in streets,	511.55	417.09	780.51	1,000.14	766.09	614.80

## HIGHWAYS AND STREETS.

MACADAM.	1891.	1892.	1893.	1894.	1895.	1896.
NEW:						
Length in feet,	10,633	10,676	9,229	5,751	15,871	17,995
Area in square yards,	26,399	25,644	23,498	12,306	34,506	38,829
Tons of stone used,	12,077	11,843	11,474	6,765	11,770	14,405
Total cost,	\$15,285.90	\$15,725.00	\$17,043.81	\$8,950.00	\$15,120.72	\$14,939.84
Cost per square yard,	\$.58	\$.613	\$.725	\$.633	\$.438	\$.384
Average tons of stone used per sq. yard,	.458	.462	.488	.466	.341	.371
REBUILT:						
Length in feet,	4,115	4,013	4,395	10,992	6,230	21,808
Area in square yards,	8,733	8,755	8,804	22,142	13,014	43,009
Tons of stone used,	2,676	2,500	3,137	8,588	4,689	15,486
Total cost,	\$4,157.35	\$3,626.23	\$4,910.70	\$11,055.00	\$5,778.19	\$17,245.91
Cost per square yard,	\$.475	\$.414	\$.557	\$.499	\$.433	\$.40
Average tons of stone used per sq. yard,	.306	.285	.356	.387	.359	.36
REPAIRED:						
Length in feet,	2,589	4,331	3,132	1,952	4,961	
Area in square yards,	7,406	16,376	8,011	3,915	9,922	
Tons of stone used,	1,215	3,999	2,170	1,598	2,147	
Total cost,	\$3,060.00	\$6,129.00	\$4,445.00	\$4,486.00	\$5,892.34	\$529.48
Cost per square yard,	\$.274	\$.295	\$.402	\$.392	\$.271	
Average tons of stone used per sq. yard,	.164	.223	.271	.282	.216	

## HIGHWAYS AND STREETS.

PAVING.	1891.	1892.	1893.	1894.	1895.	1896.
<b>NEW, BLOCK:</b>						
Area in square yards,	3,394	2,039	7,406	1,445	1,447	30
Cost,	\$8,045.18	\$6,367.54	\$16,037.52	\$2,677.64	\$2,992.45	\$55.34
Cost per square yard,	\$2.37	\$3.123	\$2.165	\$2.049	\$2.067	\$1.854
Area in sq. yards, concrete foundation,					1,389	1,242
Cost,					\$4,361.47	\$3,117.58
Cost per square yard,					\$3.138	\$2.51
<b>COBBLE:</b>						
Area in square yards,	7,020	4,888	5,719	401	2,632	3,679
Cost,	\$3,594.00	\$2,341.27	\$2,290.90	\$129.17	\$1,102.59	\$1,074.16
Cost per square yard,	\$ .511	\$ .479	\$ .405	\$ .366	\$ .418	\$ .542
<b>RELAID COBBLE:</b>						
Area in square yards,	10,842	5,372	7,079	16,923	4,374	2,300
Cost,	\$3,575.00	\$1,883.00	\$2,557.00	\$7,121.00	\$1,214.74	\$898.55
Cost per square yard,	\$ .329	\$ .35	\$ .361	\$ .332	\$ .277	\$ .35
Total cost of paving repairs,	\$5,315.72	\$6,306.04	\$7,557.33	\$7,943.11	\$3,182.74	\$3,124.82



## HIGHWAYS AND STREETS.

GUTTERS.	1891.	1892.	1893.	1894.	1895.	1896.
New :						
Length in feet,	20,937.	10,909.	11,560.	11,233.	23,747.	39,760.
Average width,	3.49	3.81	3.93	3.94	3.47	3.30
Area in square yards,	8,141.	4,627.	5,055.	4,929.	9,153.	15,715.
Cost,	\$5,123.92	\$2,699.50	\$3,034.17	\$2,720.94	\$4,486.01	\$7,577.69
Cost per square yard,	.629	.583	.60	.552	.497	.482
Cost per foot in length of average width,	.244	.247	.262	.242	.192	.19
REPAIRED :						
Length in feet,	13,369.	19,109.	17,111.	17,728.	6,375.	8,088.
Area in square yards,		7,968.	6,759.	6,744.	2,517.	3,093.
Cost,	\$1,790.14	\$2,608.61	\$1,978.86	\$2,276.52	\$901.36	\$1,946.53
Cost per square yard,		.327	.292	.322	.257	.384
Cost per foot in length,	.133	.136	.115	.128	.141	.147

## HIGHWAYS AND STREETS.

CURBING.	1891.	1892.	1893.	1894.	1895.	1896.
NEW :						
Length,	17,206.	25,201.	9,076.	4,193.	11,040.	23,583.
Cost,	\$12,047.44	\$16,762.82	\$5,906.80	\$2,684.38	\$6,662.44	\$11,973.77
Cost per foot,	.70	.665	.65	.64	.603	.51
Cost of stone per foot,	.54	.485	.48	.47	.43	.35
Cost per foot for labor,	.16	.18	.17	.17	.173	.16
RELAI'D WITH NEW CURBING :						
Length,		1,426.	3,105.	1,855.	1,077.	301.
Cost per foot,		\$ .694	\$ .682	\$ .686	\$ .619	\$ .512
RELAI'D WITH OLD CURBING :						
Length,	5,245.	4,395.	9,063.	2,023.	521.	3,099.
Cost per foot,	\$ .129	\$ .123	\$ .118	\$ .117	\$ .093	\$ .115

## HIGHWAYS AND STREETS.

FLAGGING.	1891.	1892.	1893.	1894.	1895.	1896.
NEW:						
Cost of stone per square foot,	\$ .1425	\$ .16	\$ .16	\$ .1525	\$ .1525	\$ .1525
Area in square yards,					285.	191.1
Cost,					\$517.84	\$319.59
Cost per square yard,					1.81	1.67
REPAIRED:						
Area in square yards,	3,287.	2,419.	4,352.	1,361.	597.	1,220.
Area new flagging,	882.	1,247.	1,439.	898.	139.	385.
Area old flagging,	2,405.	1,172.	2,912.	463.	458.	885.
Cost,	\$3,167.56	\$3,793.63	\$4,380.69	\$1,577.77	\$1,503.05	\$1,515.99
Cost per sq. yd. of relaying new stone,	1.61	1.771	1.736	1.538	1.846	1.423
Cost per sq. yard of relaying old stone,	.432	.471	.471	.425	.583	.451

## HIGHWAYS AND STREETS.

CONCRETE.	1891.	1892.	1893.	1894.	1895.	1896.
NEW:						
Area in square yards,	3,416.	5,342.	5,355.	4,901.	7,431.	11,323.
Cost,	\$1,957.20	\$2,576.33	\$2,596.76	\$2,288.84	\$3,142.06	\$4,194.62
Cost per square yard,	.572	.482	.485	.478	.422	.374
REBUILT:						
Area in square yards,		2,490.	2,774.	1,982.	1,451.87	1,255.
Cost per square yard,		\$ .422	\$ .423	\$ .441	\$ .355	\$ .292
TOP COAT:						
Area in square yards,		2,461.	3,589.	4,495.	1,024.76	697.
Cost per square yard,		\$ .157	\$ .231	\$ .19	\$ .219	\$ .249

IN BOARD OF ALDERMEN,

March 11, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,

City Clerk.

IN COMMON COUNCIL,

3 mo. 11th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.

1897—CITY DOCUMENT No. 11.

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FOURTH ANNUAL REPORT

OF THE

ENGINEERING DEPARTMENT

OF THE

CITY OF NEW BEDFORD

TO THE

CITY COUNCIL,

BY THE

CITY ENGINEER,

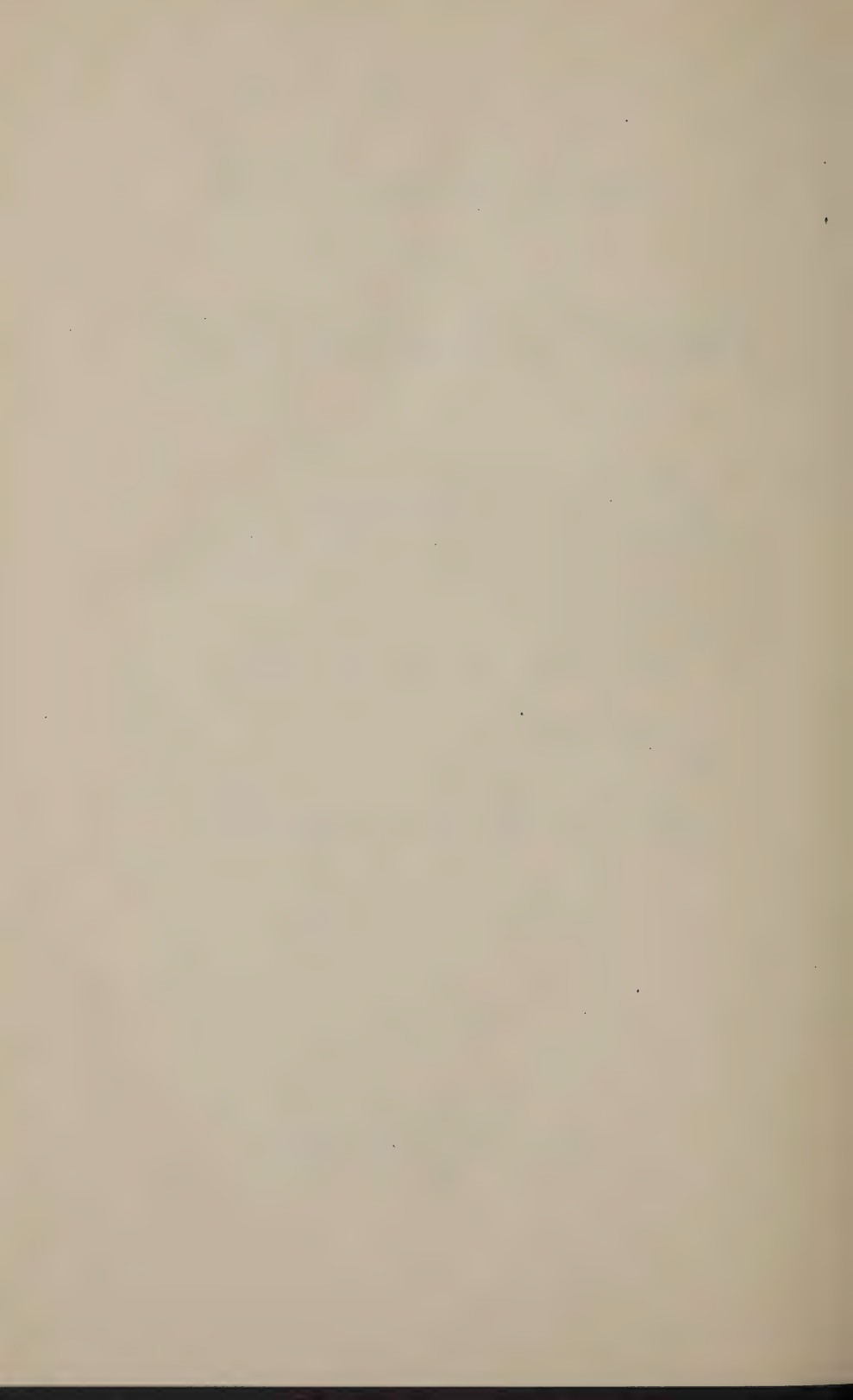
FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.





# REPORT.

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CITY OF NEW BEDFORD,  
Engineering Department,  
January 1, 1897.

*To the City Council of the City of New Bedford.*

GENTLEMEN :—In compliance with Section 5 of the ordinance defining the duties of the City Engineer, the following report of the expenses and operations of the Engineering Department for the year 1896 is respectfully submitted.

The expenditures and receipts for the year have been as follows :

## EXPENDITURES.

Salaries and pay-rolls,	\$7,464.58
Rent,	700.08
Janitor's services,	104.00
Lighting,	25.06
Telephone,	59.30
Street Railway tickets,	175.00
Drawing instruments and supplies,	156.77
Transit, new,	237.50
Printing, stationery, etc.,	121.35
Sundry supplies,	78.50
Repairs to instruments, tapes, etc.,	23.94
Labor by other Departments not in pay-roll,	12.64
Office furniture and repairs,	266.00
Map of city lithographed,	20.00
Public Statutes and reference books,	7.50
Print cloth, etc., for platting system,	13.15
New tapes,	30.00
Horse and carriage hire,	75.75
Travelling expenses, postage, express, etc.,	25.45
Bound stones and setting same,	66.68
Printing report,	36.16
General instruments for office and field,	60.25
	\$9,759.66

## RECEIPTS.

Appropriation, regular,	\$8,000.00
Appropriation, special,	1,500.00
Transfer to balance,	243.76
By credit second audit,	15.90 \$9,759.66

The foregoing statement is in accord with the account of the Department, as shown by the books of the City Auditor. The Department has, however, turned in to the City Treasurer to the credit of unappropriated funds \$584.26, as shown by the following statement, which with a credit of \$15.90 due to error in one account, will show that the net cost of the Department to the city for the year has been \$9,159.50.

## EXPENDITURES.

Gross,	\$9,759.66
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## RECEIPTS.

By credit to unappropriated funds :

Labor on New Bedford & Fairhaven bridge,	\$518.06	
Use of transit,	1.50	
Blue prints,	31.80	
Maps,	16.25	
Supplies,	11.15	
Services,	5.00	
Cards,	.50	\$584.26
Frost & Adams, error on bill,		15.90
Net expenditure,		9,159.50
		<hr/> \$9,759.66

The following table shows the distribution of time and salaries of the assistants for the year. The cost of administration is shown as an undivided charge.

An inspection of this table will show the broad scope of the work of the Department, and how difficult it is to predict the extent and character of the demands which may be made upon it in the future.

The results of this time have been so thoroughly tabu-

lated, as will be seen from an inspection of the annexed tables, that very little remains to be said on the work itself.

There are at present nine assistants employed in the Department: George H. Nye, L. J. Hathaway, Jr., Frank H. Murkland, Norman Barstow, Edward M. Slocum, H. S. Bowie, William S. Chase, Bartlett Allen, Clara W. Phinney.

## GENERAL CLASSIFICATION OF WORK DONE.

## Assistants Time and Cost.

	Office.		Field.		Total Cost.
	Time.	Cost.	Time.	Cost.	
Assessors' plats, corrections, record of transfers, etc.,	3,255	\$737.84	216	\$41.63	\$779.47
Bench marks, levels for connecting and correcting,	29	7.25	19	3.73	10.98
Bridges, . . . . .	14	3.12	110	21.78	24.90
Cemeteries, surveys, plans,	2,304	346.68	1,798	351.21	697.89
City Solicitor, Inspector of Buildings, City Clerk and other city officials, surveys, plans, etc.,	259	57.50	273	56.46	113.96
Correcting office plans, copying plans, etc.,	197	37.13	10	1.94	39.07
New Bedford and Fairhaven Bridge,	1,455	439.26	352	78.06	518.06
Department of Public Works, surveys, plans, etc., for special orders,	122	22.86	163	23.65	46.51
Drains, grades, and levels for laying same,	55	6.30	163	32.40	38.70
Drains, location, measures, index of same, etc.,	282	51.21	301	59.04	110.25
Indexing plans, note books, and other records,	1,185	73.38	192	35.61	108.99
New work, measurement, calculation, macadam, concrete, etc.,	1,646	291.31	45	7.34	298.65
Office work, cleaning tapes and instruments, entering orders, etc.,	16	1.44	51	12.28	13.72
Park Commissioners, surveys, plans, etc.,	112	24.72	730	146.03	164.51
Private parties, grades for buildings, steps, etc.,	39	8.48	32	5.76	6.87
Public buildings, lines and levels for same,	5	1.11	2	0.62	212.13
Reports of 1895 and 1896, compiling information for same,	802	221.51	599	115.13	292.73
Sever construction grades, levels and profiles,	1,182	177.60	2	0.45	116.46
Sever assessments, plans, ownerships, records, etc.,	536	116.01	647	134.14	137.94
Street department, grades for construction,	17	3.80	387	80.58	111.77
Street grades, levels taken for establishing same, office records, etc.,	155	31.19	15.80	15.80	15.80
Street improvements, inspection and recording same,	112	15.80	1,320	247.81	616.37
Street layouts, surveys, plans, returns, records, tracings, etc.,	1,650	368.56	66	12.67	18.64
Street numbers, re-numbering, new numbers, records, etc.,	30	5.97	234	53.21	63.67
Tide gauge,	53	10.46	195	37.61	40.88
Water Works department, grades, levels, profiles, surveys, etc.,	14	3.27	179.53	179.53	179.53
Vacations and legal holidays,	1,377	179.53			13.50
Time charged in 1895 but paid in 1896,					
Totals, . . . . .	17,279	\$3,455.29	7,907	\$1,559.88	\$5,028.58
Administration, . . . . .					2,436.00
Total cost, exclusive of special work on Grade Crossings,					\$7,464.58
Grade Crossing investigation,	2,883	\$993.13	812	\$164.23	\$1,356.45
Vacations and legal holidays,	386	199.09			
Total, . . . . .	20,548	\$4,647.51	8,719	\$1,724.11	\$8,521.03

Total number of hours service, regular department work, 27,994 at a cost of .266 cents per hour.  
 An increase over 1895 of 7,167 hours, at a decrease in cost of .033 cents per hour.

## GRADE CROSSING INVESTIGATION.

Early in the year, the joint special committee of the City Council on grade crossings met and approved a general scheme for carrying on the work of the investigation. The work of this Department in connection with the preparation of plans and estimates for the elimination of the various grade crossings, has been conducted under the supervision of this committee. Owing to the extent of this work, we did not reach a point where anything approaching a full report could be made before the close of the year. Pending the appointment of a new committee, I shall continue the work as previously planned, as there is considerable yet to be done, but I would earnestly urge the early appointment of a committee to represent you in charge of the investigation, to whom I may report its progress and receive instructions. I think it proper to briefly state that there is a growing desire amongst many of our citizens for a public statement of the progress of the investigation and an outline of the general scheme which the city government proposes to advocate. While I am personally willing to gratify this desire, authority to do so should come from your body.

Mr. George A. Kimball, Civil Engineer of Boston, has continued to act with me as Consulting Engineer on this work, and has given valuable assistance.

The expenditures for account of the investigation have been as follows :

## EXPENDITURES.

Salaries and pay-rolls,	\$1,737.05
Horse and carriage hire,	1.50
Sundry supplies,	39.02
Drawing instruments, etc.,	15.98
Office furniture, etc.,	43.37
Printing, stationery, etc.,	41.38
Reference books,	9.00

Reports grade crossing laws,	23.25	
Telephone,	1.90	
Travelling expenses, etc.,	106.75	
Union Street Railway tickets,	25 00	
Janitor's services,	23.00	\$2,067.20
Balance carried forward,		414.88
		<hr/>
		\$2,482.08

CR.

By balance January 1st, 1896,	\$1,482.08	
Special appropriation,	1,000.00	\$2,482.08

## TIDE GAUGE.

A summary of the tidal observations for the year is given in the following table. It will be noted that the highest tide of the year was less than 2 feet above mean high water.

The following diagrams are reproduced from sheets taken by the gauge, and show

1st—Greatest range of tides, viz., nearly 6 feet on November 5th.

2d—Least range of tides, viz., 1 foot 7 inches, September 30th.

3d—Erratic movements of the tides.

Curves similar to the latter, although not so extreme, are quite frequent. In most cases the cause can be directly traced to the wind prevailing at the time. In the case illustrated, however, this does not explain it, as the wind was not strong either immediately before or after the tides shown.

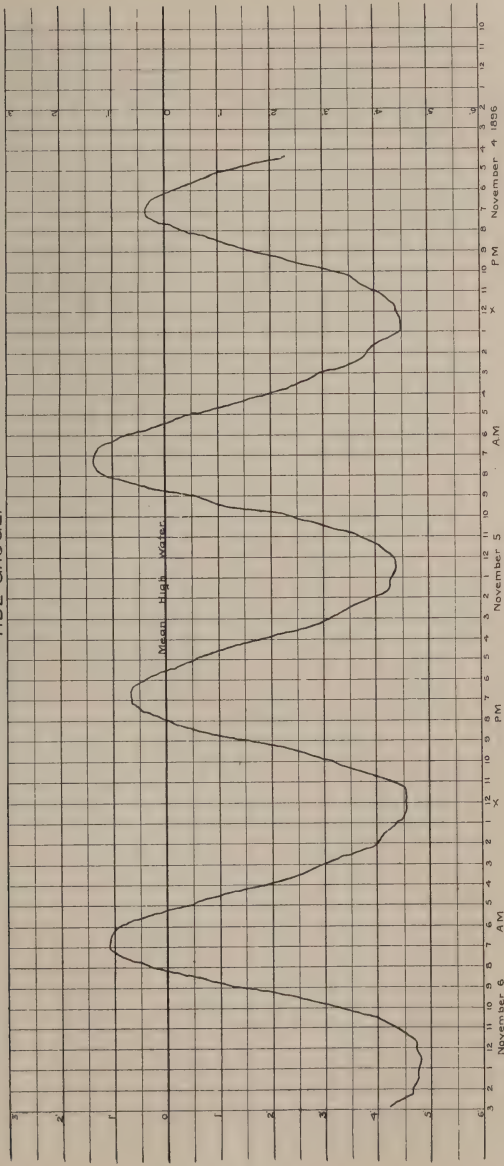


New Bedford, Mass

CITY ENGINEER'S OFFICE.

No 201

TIDE GAUGE.



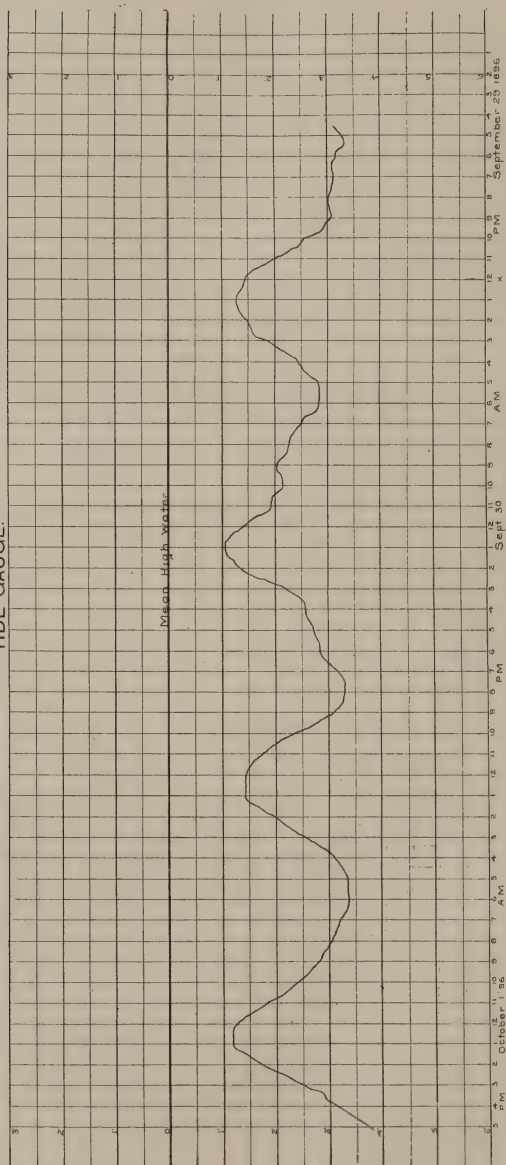


No. 193

CITY ENGINEER'S OFFICE,

New Bedford, Mass.

## TIDE GAUGE.

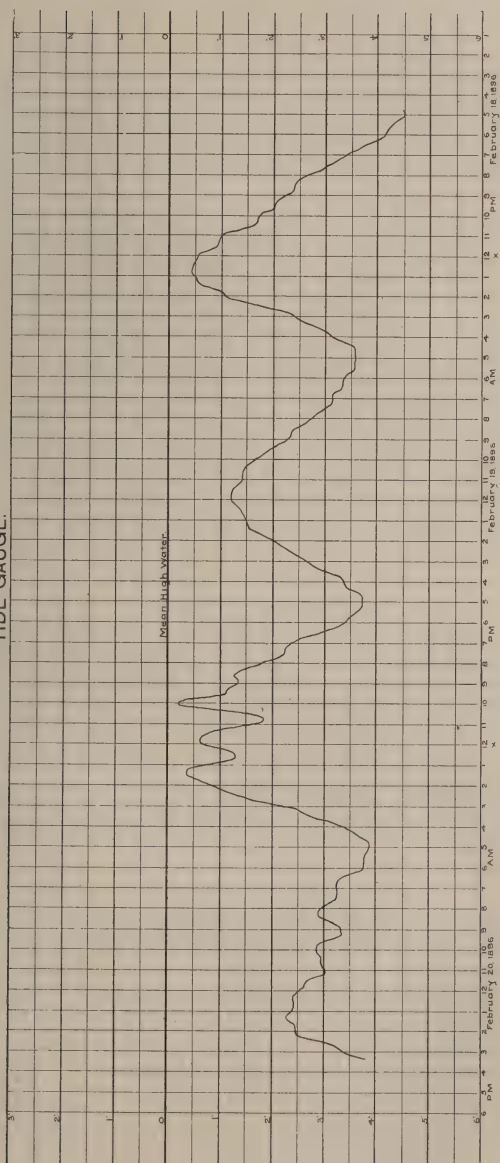


No. 107

CITY ENGINEER'S OFFICE

New Bedford, Mass

## TIDE GAUGE.



## MONTHLY SUMMARY OF TIDES FOR THE YEAR 1896.

MONTHS.	Average rise of tides below mean high water.	Average fall of tides below mean high water.	Highest high tide above mean high water.	Lowest high tide below mean high water.	Highest low tide below mean high water.	Lowest low tide below mean high water.
January,	0.66	4.25	0.23	1.93	2.80	—5.37
February,	1.02	4.50	1.25	2.90	2.95	—6.27
March,	0.87	4.65	1.58	2.30	2.50	—6.50
April,	0.642	4.37	0.70	1.83	3.30	—5.27
May,	0.616	3.97	0.90	1.55	3.15	—5.20
June,	0.665	4.11	0.35	1.65	3.40	—4.90
July,	0.662	4.13	0.15	1.95	3.40	—4.90
August,	0.390	4.19	0.65	1.55	3.35	—5.10
September,	0.588	4.22	1.88	2.00	3.54	—5.40
October,	0.554	4.06	1.60	1.80	2.90	—5.30
November,	0.724	4.31	1.10	2.10	3.70	—5.10
December,	0.600	4.35	0.90	1.70	2.90	—5.65
For the year,	0.665	4.26	1.88	2.90	2.50	—6.50

Average rise of tides, 3.594.

High Water refers to City Datum=0.

## PLATTING SYSTEM.

The entire system went into use in January, and the assessors were furnished with a complete set of blue prints corrected to January 1st, 1896. Corrections due to changes of ownership have been made daily in this office, and furnished to the assessors as required by them.

The following interesting information has been deduced from the plats, and may be accepted as practically accurate :

	Acres.	Square rods.
Total area of private ownership in the entire city,	10,877	155.967
Total area of land owned by city, including parks and cemeteries,	447	117.44
Total area of land owned by U. S. government,	65	56.48
Area of railroad right of way which is exempt from taxation,	84	96.62
Total area in streets accepted and contemplated, as shown on plats,	893	55.34
Total area of entire city,	12,369	1.84 rds.
Equivalent to 19.32 square miles.		

## COGGESHALL STREET BRIDGE.

Early in the year, repairs were completed on the draw span of the Coggeshall street bridge, in accordance with the plans prepared by this Department in 1895, and under a contract made with the King Bridge Co. of Cleveland, Ohio.

These repairs consisted of a new turn-table, stiffening of the lower chords of the draw span trusses, end lift screws, raising of the entire bridge from 9 inches at the abutments to 2 feet 9 inches at the centre; with a thorough cleaning and painting of the entire superstructure.

Eight dolphins, four piles in each, were also driven at the north and south of the approaches to the draw, so as to protect the draw span and bridge from collisions.

The draw has been operated without trouble since the completion of the work.

## CEMETERIES.

The work of platting the lots in the different cemeteries, which was begun in 1894, was pushed vigorously forward during the past year, and will be completed the coming year.

A large plan of Oak Grove cemetery, similar to the one made in 1894 of Rural cemetery, is now being made.

## STREET LAYOUTS.

A bill, accompanied by a petition of numerous citizens, was introduced in the General Court early in the session of the past year, for a greater control by the city over the layout of contemplated streets. This was in line with a recommendation in my report for 1895, and in my judgment was necessary and desirable legislation. The committee to whom the bill was referred took the stand, however, that the city already had sufficient power to reg-

ulate or control such matters, and the bill failed to receive a favorable report.

The necessity for securing advance information in regard to contemplated streets became so very apparent, as from time to time the Board of Public Works was called upon to accept streets which were not laid out in accordance with their judgment, but owing to the fact that their lines had become practically established by the erection of buildings and could not be changed without going to an expense out of all proportion to the importance of the street, and in many cases imposing a hardship upon innocent people, acceptance was virtually the only alternative.

As a preventive measure, the following ordinance was passed by the City Council in the latter part of the year :

“Be it ordained by the City Council of the City of New Bedford, as follows :

SECTION 1. Every person, before proceeding to erect any building, or wall, or make any alterations in the external wall of any structure, any part of which is to be placed upon or within thirty feet of any accepted or contemplated street, square, lane, or alley, or to lay the foundation thereof, shall, at least fifteen days before the work is begun, obtain from the City Engineer the lines and grade of the street, lane, square, or alley upon which he intends to build, which shall be furnished without charge.

SECTION 2. The Committee on Buildings in the Fire District or the Inspector of Buildings shall not grant to any person a permit to erect any building or wall until the provisions of Section 1 of this ordinance have been complied with.”

While it is quite evident that this ordinance does not meet the exigencies of the case as fully as the bill presented to the Legislature, it does furnish information of intended construction, and will no doubt prevent many errors that have been quite common in the past. It has a field of its own, in which it can operate with profit to the individual as well as to the municipality.

Some objection has been raised to the length of time required for defining the line and grade. This, however,



is intended to cover extreme cases, as it will seldom take this Department over forty-eight hours to give the information called for.

### SEWERS.

The total length of Sewer systems of the entire city, January 1st, 1897, is about 295,779 feet, or 56.01 miles. The material of construction is as follows :

About	203,007 feet	vitrified pipe sewer.
"	9,570 feet	cement pipe sewer.
"	93,750 feet	brick sewer.
"	1,500 feet	iron pipe sewer.
"	1,106 feet	stone sewer.
"	100 feet	wood sewer.

The total cost to the city of the system up to Jan. 1st, 1897, has been \$912,357.65, and the whole amount returned to the city up to the same date from assessments and costs assumed by private parties is \$256,094.28. This does not include entrance fees.

Details of the sewers built during the year have been carefully compiled in table annexed, prepared jointly with the Superintendent of Public Works. This table shows a total construction of 14,437.2 lineal feet of sewers, of which the Howland street sewer was the most important, not only from its size and natural difficulties of the construction due to the location, but also from the relief which it afforded to a long suffering portion of the community. It will not be correct, however, to assume that this sewer has removed all the trouble. Extreme high tides will still back up into Water street, and this can only be prevented by raising the grade of the street. Such extreme high tides are very infrequent; as a matter of fact, we did not have one the past year.

It was originally intended to carry the sewer into the river 200 feet from the shore, and plans for the same were

approved by the Harbor and Land Commissioners, but owing to the lateness of the season, it was thought best not to carry the construction beyond the shore line at that time. This should be done the coming season, as it is necessary to secure the discharge of the sewage a sufficient distance from the shore to avoid the nuisance which would be created at the present outlet. Tidal currents will be stronger at this point and water deeper.

The sewer, as designed and built, is circular throughout its length, six feet in inside diameter from the outlet to the west side of Front street, and five feet in diameter from this point west to Water street. From a point forty feet east of Prospect street to Water street it replaces the old sewer. From the first point to the river the old sewer was built of wood, and is now discontinued.

Owing to the proximity of tide-water and the character of the material to be excavated, it was necessary to sheet pile the trench from the outlet to the west side of Prospect street.

The trench was laid out nine feet in width between the sheeting, and the excavation carried to hard bottom. A foundation of rough stone was then laid in cement mortar and carried up to the springing line of the arch. This was then covered with concrete, to obtain a true surface concentric with the circle of the invert, and on this was laid the invert, consisting of one ring of Barrington brick. The arch was then built of two rings of the same brick, the side walls carried up to the top of the arch, and the intervening space filled with stone and mortar. From Prospect street west to where the size is reduced to five feet, the grade of the street is low, being less than two feet from the top of the brick-work; the arch was, therefore, strengthened by six inches of concrete over the top of the brick-work.

The primary cause of the construction of this sewer was



the frequent flooding of Water street and the inability of the old sewer to prevent it. But there was another purpose given consideration in the designing of this sewer which I consider of equal if not greater importance, and although an old subject, I trust it will receive your consideration. This was its connection with an intercepting sewer to be constructed along the water front.

An intercepting sewer may be said to become a necessity in a situation like ours from a combination of sanitary and commercial considerations; on the one hand, pollution; on the other, filling. Pollution of the shore water aside from sanitary considerations is, perhaps in our case, a much more serious matter than many realize. Our mills use daily large quantities of salt water which is drawn from points adjacent to the shore, and while I understand that this water does not enter in any way into the manufactured goods, but is used only for condensing the exhaust steam from the engines and for fire services, it is quite important that it be kept pure as possible. If it were to contain any considerable amount of sewage, it would be rendered unfit for its present use.

Just how much sewage can be discharged into the river before it reaches a point where it will not only be dangerous from a sanitary point of view, but also a menace to the maintenance of deep water in the harbor, as well as to a continuance of the present use of the water by our mills, is a difficult question to answer. Perhaps the best answer lies in the experience of other seaport cities where, as in several cases which might be cited, the situation has become so bad that they have been compelled to resort to the construction of expensive intercepting sewers and pumping plants, to discharge the sewage farther out to sea.

I am satisfied that the present tidal flow of the Acushnet river is sufficiently large to thoroughly dilute and

carry off a much larger volume of sewage than now enters the river, if it can be so discharged into the river as to be acted upon by the active part of the tidal body. Wharves and piers and natural projecting points of land tend to produce eddies and basins where the current action of the tide is entirely destroyed, and the water simply rises and falls vertically.

To entirely prevent filling from deposition of the solid portion of the sewage is not possible. There may be, however, a choice as to where this filling can take place with a minimum of injury to private interests and to the welfare of the harbor. The low average rise and fall of the tides in this river, only about  $3\frac{1}{2}$  feet, prevents the creation of swift tidal currents, so that heavy matter cannot be carried far in suspension.

After careful consideration of these conditions, I am satisfied that a gradual concentration by means of an intercepting sewer, of the present numerous points of discharge into one outlet to be placed where it will do the least harm for the greatest length of time, is the most practical solution of the question. I also think that the Howland street sewer, if extended well into the river, meets the conditions for this outlet. The water at this point is naturally shoal and the bottom is hard, so that the sewer can be built at a reasonable cost. The discharge will be in water which has an appreciable current during a portion of each tide; and although the deposition must take place, it will probably be governed by the same natural causes which have already produced a large area of shoal water immediately north of Palmer's Island and east of Howland street, and will be deposited somewhere on these flats, although there is some probability that a portion of the sewage may be carried through the channel between Palmer's Island and the main land, but this could do no particular harm for some time to come.

It is difficult to say just what amount of filling is taking place from the discharge of sewage into the river. From the census of the city made by the assessors last year, which placed the entire population at 59,362, I estimate that the present population of the area now drained into the river is 40,000. Assuming that the volume of sewage is equal to the consumption of water per capita, which I believe is about 100 gallons daily, and that 50 parts in 100,000 parts of sewage is solid matter, the annual discharge of solid matter from sewage alone would be about 3,500 cubic yards. There should be added to this something for the solid matter carried into the sewers from the streets, which must occur at times in spite of our many sand catchers. Omitting this factor, however, as it would be entirely a matter of conjecture, we must admit that just what proportion of the solid matter discharged by the sewers is carried to sea by the tides or oxidized by the water must depend largely upon the point of discharge. Under present conditions, a much larger proportion remains near the outlets of the sewers than would if these outlets were sufficiently far from the sewers to discharge into the tidal current.

To intercept all of the sewage possible, the intercepting sewer should be as near the river as possible. This will naturally introduce some difficult problems in the way of construction, but I think they can be successfully overcome at a reasonable cost. It is also my idea that only sewage will be provided for, the present outlets being used for storm water overflows. Whether such a sewer can be operated entirely and at all times by gravity, is a matter which will require special investigation to fully determine.

The following table, giving the population and area of each precinct and ward of the city, also the drainage area and rainfall on same of sewers discharging into the Acushnet river, is of interest in connection with this discussion.

# AREA AND POPULATION OF NEW BEDFORD BY WARDS AND PRECINCTS.

WARDS.	PRECINCTS.	AREA.	POPULATION.
Ward 1.	{ Precinct 1,	9,027 <sup>7.3</sup> acres.	6,746
	{ Precinct 2,	225 <sup>8.2</sup> "	6,566
	Total,	9,253 <sup>5.5</sup> acres.	Total, 13,312
Ward 2.	{ Precinct 3,	163 <sup>0.8</sup> acres.	4,650
	{ Precinct 4,	547 <sup>4.6</sup> "	3,829
	Total,	710 <sup>5.4</sup> acres.	Total, 8,479
Ward 3.	{ Precinct 5,	95 <sup>0.5</sup> acres.	3,964
	{ Precinct 6,	250 <sup>6.5</sup> "	2,981
	Total,	345 <sup>7.0</sup> acres.	Total, 6,945
Ward 4.	{ Precinct 7,	148 <sup>6.8</sup> acres.	3,604
	{ Precinct 8,	327 <sup>4.9</sup> "	3,971
	Total,	476 <sup>1.7</sup> acres.	Total, 7,575
Ward 5.	{ Precinct 9,	155 <sup>4.4</sup> acres.	5,846
	{ Precinct 10,	392 <sup>8.7</sup> "	3,671
	Total,	548 <sup>3.1</sup> acres.	Total, 9,517
Ward 6.	{ Precinct 11,	772 <sup>2.3</sup> acres.	6,983
	{ Precinct 12,	545 <sup>9.6</sup> "	6,551
	Total,	1,318 <sup>1.9</sup> acres.	Total, 13,534

Total area, 12,652<sup>4.6</sup> acres.

Total population, 59,362.

Areas are only approximately correct, having been taken from plan by planimeter.

# DRAINAGE AREA AND RAINWATER DISCHARGE OF SEWERS EMPTYING INTO THE ACUSH- NET RIVER.

NAME OF SEWER SYSTEM	Drainage Area In Acres.	Slope of Ground Per 1,000 Feet.	Rainwater Dis- charge per cubic foot per sec.
Blackmer street,	17.48	8 feet.	8.91
Coffin avenue,	110.19	18 "	41.87
Coffin street,	93.44	25 "	42.04
Coggeshall street,	42.16	10 "	18.55
Copper street,	47.00	5 "	16.45
Cove street,	57.88	8 "	22.00
Eln street,	45.69	40 "	32.85
Gifford street,	21.59	8 "	10.58
High street,	20.56	35 "	16.80
Howland street,	78.45	12 "	37.44
Maxfield street,	35.40	42 "	27.65
Merrimac street,	42.00	50 "	33.56
Merrimac street,	189.99	10 "	68.40
Middle street,	16.89	33 "	13.60
North street,	30.41	36 "	23.40
Pearl street,	41.57	39 "	30.34
Rockland street,	103.28	5 "	35.12
Sawyer street,	307.95	11 "	83.14
School street,	39.22	36 "	28.86
Union street,	26.59	29 "	20.28
Wall street,	4.69	5 "	3.09
Walnut street,	22.77	32 "	27.16
Washburn street,	31.03	12 "	18.00
Willis street,	93.00	30 "	52.08
Willis street,	187.47	8 "	56.10
	1,706.70		768.25

Balance of area to Tarkiln Hill road, which drains to the river=978 acres. Average slope=10 ft. per 1,000 ft.

Rainwater disch. per sec.=195.6 cu. ft.

Estimated population of section now drained by sewers discharging into the Acushnet river=40,000.

Rainwater discharge of above drainage areas calculated from Buerkli-Ziegler formula.  $Q=1.25 C R \sqrt[4]{\frac{S}{A}}$

Q=Maximum flood discharge in cu. ft. per acre, per second.

C=Coef. of surface.

=0.50 for suburban sections.

=0.60 for thickly settled sections with paved streets.

R=Assumed intensity of rainfall=1 cu. ft. per sec. per acre.

S=Slope of drainage area per 1,000 ft.

A=Area drained in acres.



## BICYCLE TRACK AROUND CLARK'S POINT.

At the request of a gentleman interested in bicycling, I have prepared a plan for a bicycle track around Clark's Point.

From the opinions which I have heard expressed, I believe that the construction of such a track would prove a great source of pleasure to many people who use a bicycle, and I therefore submit the matter with the following explanatory remarks as deserving of your consideration.

The track or path should be at least six feet in width to permit two wheels to pass with safety. To avoid crossing intersecting streets, it ought to be on the outer or water side of the roadway, commencing say on West French avenue, a short distance south of Cove road and terminating on East French avenue at the east end of Cove street, a distance of about  $3\frac{1}{2}$  miles.

The grade of the path would be nearly level the entire distance; this, with its accessibility, its proximity to the water, together with the view, makes the location an ideal one.

The cost of the path will depend largely upon the degree of permanence sought for in the method of construction adopted. Fortunately, the naturally porous nature of the soil of the road in question will do away with the necessity for under drainage, unless it is desired to use the path in the winter. Some grading of course will be necessary, and a gutter should be made between the path and driveway, not only to take care of the wash from the road, but to assist in preventing teams from trespassing upon the path.

While I find it claimed that bicycle paths have been constructed at a cost of \$125 per mile, I should not want to estimate the cost of a path around Clark's Point at less than \$500 per mile, to secure satisfactory and fairly per-

manent results. This would seem a very small expenditure, however, when compared with the large sums spent in every city for the comfort and convenience of purely pleasure driving.

In closing, I wish to thank the many citizens and members of the City Council, and of other departments who have from time to time kindly assisted this department.

Respectfully submitted,

WILLIAM F. WILLIAMS,

City Engineer.



## STREETS LAID OUT AND ACCEPTED IN 1896.

STREET.	FROM	TO	WIDTH AND LENGTH IN FEET.		
			50	45	40
Adams,	County	West,			546.68
Arnold place,	Arnold	Rotch et.,		421.81	
Bentley,	Acushnet av.	Bowditch,	476.24		
Bourne,	Fruit	Thompson,			336.32
Bourne,	Thompson	Spooner,			291.50
Bullard,	Acushnet av.	Bowditch,	580.09		
Chancery,	Parker	Tilton,			650.88
Chestnut,	Locust	Robeson,			598.34
Cook,	Kempton	Mill,			158.95
Fair,	Bonney	Orchard,	171.00		
*Front,	Holly	Davis,	2,049.88		
Front,	Davis	Belleville rd	1,661.61		
Hall,	Rivet	Thompson,			384.49
Merrimac,	County	Cottage,	919.97		
Myrtle,	Clark	Penniman,	150.42		
Orchard,	Rockland	Fair,	361.20		
Orchard,	Fair	Washingt'n,			379.30
Penniman,	Reynolds	Myrtle,	255.62		
Reynolds,	Clark	Ced. Grove,	495.24		
Reynolds,	Cedar Grove	Peckham,	232.03		
Richmond,	Locust	North,			442.33
Short,	Grape	Allen,	531.76		
Summer,	Parker	Robeson,			1,072.78
Thatcher,	Grit	Cove road,	261.78		
Tilton,	Shawmut av.	Chancery,			210.51
Total lengths,			8,146.84	421.81	5,072.08

2.58 miles, or 13,640.73 ft.

\*Reaccepted.

STREET WIDENINGS LAID OUT AND ACCEPTED  
IN 1896.

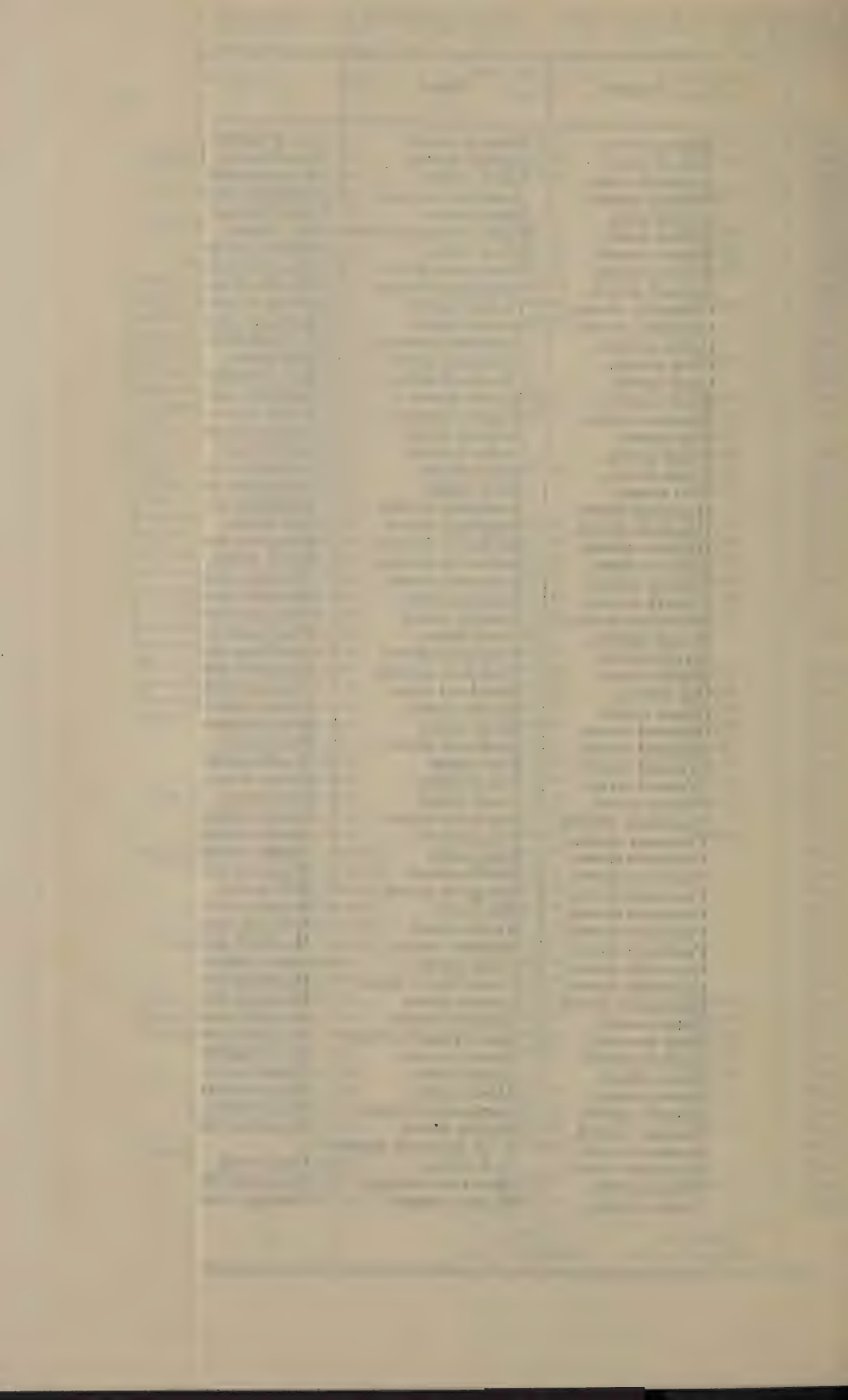
STREET.	FROM	TO	WIDENING.	LENGTH.
Cove,	Cleveland	E. French av.	By curve,	
Purchase,	Elm	Middle,	43½ to 60 ft. w.s.	183.31
Purchase,	Middle	Kempton,	40 to 60 ft. w.s.	302.03
				485.34

## BUILDING LINE ESTABLISHED IN 1896.

Coffin ave., | Acushnet avenue to 665 feet east of Belleville avenue,  
5 feet each side.

## STREET LAYOUTS, ETC., FOR BOARD OF PUBLIC WORKS.

STREET.	FROM	TO	FOR	SURVEY MADE. Length.	LEVELS RUN. Length.	OFFICE WORK.	ACTION BY BOARD OF PUBLIC WORKS.
Adams street,	County street	Mt. Pleasant street,	Layout,	1,599.93	1,599.93	Plan of street 50 feet wide.	Profile.
Arnold place,	Arnold street	Rotch court,	Layout,	421.81	421.81	Plan of street 45 feet wide.	Profile.
Ashland street,	Clark street	A contemplated st.,	Layout,	3,231.16		Plan of street 50 feet wide.	Accepted.
Bentley street,	Acushnet avenue	Bowditch street,	Layout,		476.24	Plan of street 50 feet wide.	Profile.
Bolton road,	Rivet street	N. line Thompson farm	Layout,			Plan of street 50 feet wide.	Accepted.
Bolton road,	N. line Thompson farm	Fair street,	Layout,	663.15	663.15	Plan of street 50 feet wide.	Profile.
Bourne street,	Fruit street	Thompson street,	Layout,	336.32	336.32	Plan of street 40 feet wide.	Accepted.
Bourne street,	Thompson street	Spooner street,	Layout,	291.50	291.50	Plan of street 40 feet wide.	Profile.
Bullard street,	Acushnet avenue	Bowditch street,	Layout,	630.13		Plan of street 50 feet wide.	Accepted.
Chancery street,	Parker street	Tilton street,	Layout,	650.88	650.88	Plan of street 40 feet wide.	Profile.
Chestnut street,	Locust street	Robeson street,	Layout,	598.34		Plan of street 40 feet wide.	Accepted.
Coffin avenue,	Acushnet avenue	ft. E. of Belleville av.	Widening,			Plan of street 50 feet wide.	Profile.
Cook street,	Kempton street	Mill street,	Layout,		158.95	Plan of street 40 feet wide.	Accepted.
Cove street,	Cleveland street	East French avenue,	Widening,			Plan showing widening by curve.	Widened.
Durfee court,	Myrtle street	Ashland street,	Layout,	252.40	252.40	Plan of street 20 to 34.40 feet wide.	Profile.
Emerson street,	Kempton street	North street,	Layout,	370.75	370.75	Plan of street 40 feet wide.	Profile.
Fair street,	Bonney street	Orchard street,	Layout,		171.00	50 feet wide.	Profile.
Front street,	Coffin avenue	Davis street,	Layout,		717.22	Plan [from Holly street] 50 feet wide.	Accepted.
Front street,	Davis street	Belleville road,	Layout,	1,661.61	1,661.61	Plan of street 50 feet wide.	Accepted.
Hall street,	Rivet street	Thompson street,	Layout,		384.49	Plan of street 40 feet wide.	Profile.
Hemlock street,	Rockdale avenue	Rockland street,	Layout,			Plan of street 50 feet wide.	Profile.
Hemlock street,	Rockland street	Fair street,	Layout,	349.31	349.31	Plan of street 50 feet wide.	Accepted.
Hillman street,	Rockdale avenue	Kempton street,	Layout,	2,317.96	2,317.96	Plan of street 50 feet wide.	Profile.
Kenyon street,	Belleville avenue	Front street,	Layout,	369.80	369.80	Plan of street 50 feet wide.	Accepted.
Liberty street,	Kempton street	Hillman street,	Layout,	662.20	662.20	Plan of street 50 feet wide.	Profile.
Liberty street,	Hillman street	Maxfield street,	Layout,	313.45	313.45	Plan of street 40 feet wide.	Accepted.
Merrimac street,	County street	Cottage street,	Layout,	919.97	919.97	Plan of street 50 feet wide.	Accepted.
Myrtle street,	Clark street	Penniman street,	Layout,	150.42		Plan of street 50 feet wide.	Profile.
Myrtle street,	Penniman street	Kempton street,	Layout,	609.29			
North street,	Rockdale avenue	Dartmouth street,	Layout,	1,307.94	1,307.94	Plan of street 50 feet wide.	Hearing given.
Oak street,	Rockland street	Union street,	Layout,	192.16	192.16	Plan of street 40 feet wide.	Profile.
Ocean street,	Maple street	Rockland street,	Layout,	991.70	991.70	Plan of street 40 feet wide.	Profile.
Orchard street,	Rivet street	Fair street,	Layout,	749.50	749.50	Plan of street 50 feet wide.	Profile.
Orchard street,	Rockland street	Washington street,	Layout,	361.20	361.20	Plan of street 50 feet wide.	Accepted.
Orchard street,	Fair street	Union street,	Layout,	379.30	379.30	Plan of street 40 feet wide.	Profile.
Orchard street,	Rotch court	Elm street,	Layout,	137.40	137.40	Plan of street 45 feet wide.	Profile.
Palmer street,	Court street	Myrtle street,	Layout,	440.46	440.46	Plan of street 40 feet wide.	Profile.
Penniman street,	Reynolds street	Acushnet avenue,	Layout,	255.62		Plan of street 50 feet wide.	Accepted.
Plummer street,	Front street	Middle street,	Widening,	440.44	446.44	Plan of street 45 feet wide.	Profile.
Purchase street,	Elm street	Kempton street,	Widening,	302.03		Plan showing widening to 60 feet.	Profile.
Purchase street,	Middle street	North street,	Widening,	134.30		Plan showing widening to 60 feet.	Profile.
Purchase street,	Kempton street	Hillman street,	Widening,	211.27		Plan showing widening to 60 feet.	Profile.
Purchase street,	Mill street	Maxfield street,	Widening,	262.80		Plan showing widening to 60 feet.	Profile.
Purchase street,	North street	Cedar Grove street,	Layout,	261.38		Plan showing widening to 60 feet.	Profile.
Purchase street,	Hillman street	Peckham street,	Layout,	495.24		Plan of street 50 feet wide.	Accepted.
Reynolds street,	Clark street	Locust street,	Layout,	232.03		Plan of street 50 feet wide.	Profile.
Reynolds street,	Cedar Grove street	Arnold place,	Layout,	592.33	592.33	Plan of street 40 feet wide.	Accepted.
Richmond street,	Orchard street	East French avenue	Layout,	209.18	209.18	Plan of street 40 feet wide.	Profile.
Rotch court,	County street	Mt. Pleasant street,	Layout,	1,741.22	647.00	Plan of street 50 feet wide.	Profile.
Ruth avenue,	Allen street	Hawthorn street,	Layout,	1,670.62	1,670.62	Plan of street 50 feet wide.	Profile.
Sawyer street,	Allen street	Field street,	Layout,	531.76	531.76	Plan of street 50 feet wide.	Accepted.
Short street,	Dartmouth street,	Robeson street,	Layout,	1,313.96	1,313.96	Plan of street 40 feet wide.	Profile.
Snow street,	Parker street	S. of Robeson street	Widening,	575.85	575.85	Plan of street 40 feet wide.	Profile.
Stowell street,	Grit street	Cove road,	Layout,	1,072.78	1,072.78	Plan of street 40 feet wide.	Accepted.
Summer street,	Shawmut avenue	Chancery street,	Layout,	120.00		Plan of street 40 to 50 feet wide.	Profile.
Thatcher street,	Fourth street	Cottage street,	Building line,	210.51	210.51	Plan of street 50 feet wide.	Accepted.
Tilton street,				1,959.73		Plan of street 40 feet wide.	Profile.
Union street,						Plan showing widening to 60 feet.	Accepted.
				33,210.64 or, 6.29 miles.	24,919.03 or, 4.72 miles.		



## LEVELS TAKEN.

STREET.	FROM	TO	LENGTH.	OBJECT.	AT REQUEST OF
*Abbott,	Ruth ave.	E. French ave.,	513	Change of grade.	Board of P. W.
*Ashley,	Ruth ave.	Cove street,	606	Change of grade.	Board of P. W.
*Austin,	Wilson	Shawmut ave.,	503	Change of grade.	Board of P. W.
*Belleville ave.,	Washburn	Kilburn,	272	To determine method of drainage.	Board of P. W.
Blackmer,	Front east		900	Amount of fill needed.	Water Board.
*Briggs,	Deane	Nash road,	1,970	Amount of work to bring to grade.	Board of P. W.
Bullock,	Thompson farm	Washington,	926	To establish grade.	Board of P. W.
*Cleveland,	Austin	Willow,	546	Change of grade.	Board of P. W.
Coffin avenue,	Ruth ave.	Cove street,	688	Change of grade.	Board of P. W.
*Coggeshall,	Belleville ave.	East,	650	Amount of work to bring to grade.	Board of P. W.
Coggeshall,	Bowditch	O. C. R. R.,	569	To establish grade.	Private parties.
*Commercial,	Purchase	County,	307	To establish grade.	Board of P. W.
*Cottage,	Front	Water,	238	To establish grade.	
*County,	Bedford	Hawthorn,	690	Method of drainage.	Board of P. W.
*Cove,	Smith	North,	100	To establish grade.	Private parties.
Cove,	East French ave.	Harbor,	750	Change of grade.	Board of P. W.
*Covell,	Harrison	Ashley,		To check grade given.	Private parties.
Deane,	Belleville ave.	Acushnet ave.,	1,105	To establish grade.	Private parties.
*Deane,	Front	East,		To check grade.	Board of P. W.
*Deane,	Acushnet ave.	Church,	1,670	Amount of grading necessary.	Water Board.
*Dinan,	Nash road,	Belleville road,	650	To establish grade.	Board of P. W.
*Dudley,	Brock ave.	W. French ave.,	1,155	Amount of grading necessary.	Board of P. W.
*E. French ave.,	Cove street	South,	900	Change of grade.	Water Board.
Emerson,	Kempton	Mill,	162	Amount of grading necessary.	Board of P. W.
*Fair,	Orchard	Sears,	710	To establish grade.	Board of P. W.
Front,	Gifford	Delano,	372	Method of drainage.	
*Front,	Commercial	Shepard's lane,	164	To establish grade.	



LEVELS TAKEN.—*Continued.*

STREET.	FROM	TO	LENGTH.	OBJECT.	AT REQUEST OF
Gifford, *Grove, Bedford, and Cottage, *Hadley, *Harbor, *Harbor, *Harrison ave., *Harrison street, *Hathaway road, *High, *Hillman, *Hope. *Howland, *Ingraham, *Kempton, *Kempton, *Linden, *Maxfield, *Middle, *Mill, *Mill, *Mill,	Harbor  Belleville ave. Gifford Gifford Ruth ave. Oak Shawmut ave. Purchase Purchase Belleville ave. Front Belleville ave. Second Purchase Hill Purchase Purchase Purchase Purchase Foster Park  Clark Purchase Belleville ave.	East,  Hawthorn, Acushnet ave., Cove street, Cove street, Cove street, Hickory, Rockdale ave., Pleasant, Pleasant, Belleville road, First, Acushnet ave., Acushnet ave., Pleasant, Cottage, Pleasant, Pleasant, Pleasant, Pleasant, Pleasant, Hill, Newton, Penniman, Pleasant, Front,	1,340  660 894 927 927 644 317 4,544 187 211 1,190 305 410 196 183 1,265 178 214 194 211 224  234 205 210 150	Change of grade.  Method of drainage. To establish grade. Change of grade. Change of grade (on water pipe). Change of grade. Method of drainage. To establish grade. To establish grade. To establish grade. Change of grade. To establish grade. To establish grade. Change of grade. To establish grade. To establish grade. Method of drainage. To establish grade. To establish grade. To establish grade. To establish grade. To establish grade. To establish grade. To find relation of buildings to establish grade. Amount of grading necessary. To establish grade. Amount of grading necessary.	Board of P. W.  Board of P. W. Private parties. Board of P. W. Water Board. Board of P. W. Board of P. W. Board of P. W. Board of P. W. Board of P. W. Board of P. W. Board of P. W. Board of P. W. Private party. Board of P. W. Board of P. W. Private parties. Board of P. W. Board of P. W. Board of P. W. Private parties. Board of P. W. Board of P. W. Board of P. W.

Palmer, Park,	Union Arnold	Court, Maple, Parker,	218	Method of drainage.	Board of P. W.
*Private way,	Maxfield	East,	343	To establish grade.	Board of P. W.
Purchase,	Ashland	Kempton,	1,362	Amount of grading necessary.	Private parties.
*Purchase,	Middle	Kempton,	157	To establish grade.	Board of P. W.
*Purchase,	High	North,	367	To check grade.	Board of P. W.
*Purchase,	Logan	Weld,	86	Condition of paving.	Private way.
*Second,	Kempton	High,	100	To establish grade.	Board of P. W.
*Shawmut ave.,	Durfee	North,	330	To establish grade.	Private parties.
*Shepard's lane,	Front	Water,	99	To establish grade.	Board of P. W.
Sixth,	Spring	Union,	238	Change of grade.	
*Smith,	County	West,	249	To establish grade.	
Spooner,	Farnum	Dartmouth,	50	To establish grade.	
*State,	Austin	Linden,	337	Amount of grading necessary.	Board of P. W.
Sycamore,	Ash	Chancery,	370	To establish grade.	Private parties.
*Tilton,	Shawmut ave.	Cemetery wall,	434	Amount of grading necessary.	Board of P. W.
*Union,	Fifth	Sixth,	627	To establish grade.	Board of P. W.
*Water,	Grinnell	Howland,	200	To establish grade.	Private parties.
*Water,	Commercial	School,	530	Change of grade.	Private parties.
*Whitman,	Front	Hope,	165	To establish grade.	Board of P. W.
*Willis,	Shawmut ave.	Park,	1,400	To establish grade.	
			465	To establish grade.	Private parties.
			41,413 ft.		Board of P. W.
			or, 7.84 miles		

\*Profile made.

## PUBLIC WORKS DEPARTMENT.

Grades for setting curbing,	110
Lines for setting curbing,	3
Grades for laying gutters,	32
Lines for laying gutters,	2
Grades for building walks,	2
Grades for cutting and filling streets,	43
Lines for cutting and filling streets,	3
Grade for bank wall,	1
Grades for sewers,	95
Trips to sewers to measure branches, ledge, etc.,	103
Plans and profiles of sewers for construction,	38
Branches located for connecting drains,	209
Levels or grades for drains,	33
Grades for Catch-Basins,	13
Line for Catch-Basins,	1
Measured 9 cargoes of curbing and crosswalk.	
Soundings to determine amount of sewer deposit at	
Howland street sewer outlet.	
North street dock.	
Soundings at draw of Coggeshall street bridge.	
Plan of dolphins at Coggeshall street bridge.	
Lines, and supervision for dolphins at Coggeshall street bridge.	
Supervision of piling at draw of N. B. & F. bridge.	
Cross-section of Abbot street, Ruth avenue to French ave. for fill.	
of earth piled in Kempton street, west of Pleasant.	
of earth piled in High street, west of Purchase.	
of widening of Purchase street, Middle to Kempton.	
Measurements of fire reservoir at corner of Union and Fourth streets.	
Location of buildings at foot of Howland street for sewer plan.	
Survey, levels, grade, and plan of culvert at Buttonwood brook at	
Kempton.	
Measures Acushnet avenue, O. C. R. R. to Sawyer street, to estimate	
amount of paving.	
Map of city, showing accepted streets corrected to Nov. 1, 1896.	
Map of city, showing sewers, corrected to Nov. 1, 1896.	
Inspection of portion of Tripp's Brook sewer and levels, to determine	
cause of water in lots north of Rivet street.	
Profiles of streets around Clark Street school-house.	

## PARK COMMISSION.

Line of Brownell avenue staked for clearing drive.  
 Staked out deer paddock at Buttonwood park.  
 Layout, line and grade of path at Buttonwood park.



Staked baseball diamond at Buttonwood and Brooklawn parks.  
Four grades and three lines given for fencing City Hall square.  
Survey and plan for improvement of City Hall square.  
Plan, line, and grade for curbing at Triangle park.

### BOARD ON ASSESSORS.

Map of city furnished, showing ward and precinct lines.  
Plats of the city corrected to May 1, 1896, and blue print of each furnished.  
Eight surveys made for changes.  
Daily record of transfers kept and plans corrected.

### BOARD OF HEALTH.

Correction of map of sewers for inspector.  
Correcting map of city, showing sewers and accepted streets, to Jan. 1, 1897.

### MAYOR.

Map of city, with ward lines, etc.

### CITY CLERK.

Map of city, showing ward and precinct lines.  
Precinct maps.

## STREETS NUMBERED.

STREET.	FROM	TO	INTERVAL IN FEET.	Nos. GIVEN.
Abbt street,	Ruth avenue	Cove street,	40	6
Beetle street,	Acushnet avenue	Bowditch street,	25	3
Cleveland street,	Ruth avenue	Cove street,	40	12
Clinton street,	County street	Park street,	20	13
Coffin avenue,	Riverside avenue	Belleville avenue,	20	5
Cove street,	East French avenue	West French avenue,	25	10
East French avenue,	Ruth avenue	Cove street,	25	3
Newton street,	Union street	Hillman street,	20	20
Pierce street,	Elm street	Kempton street,	20	8
Rotch street,	Hawthorn street	Court street,	20	2
Salisbury street,	Ruth avenue	Cove street,	40	7
Stapleton street,	Cove road	Cove street,	20	6
Stone street,	Allen street	South,	50	4
Thatcher street,	Grit street	Cove road,	20	6
Viall street,	Ruth avenue	Cove street,	40	4
Single numbers given on streets previously numbered,				38

# DETAILS OF SEWERS CONSTRUCTED IN 1896.

STREET.	LOCATION.	SIZE AND MATERIAL.						TOTAL LENGTH.	Greatest cut.	Average cut.	Greatest cut in ledge.	Average cut in ledge.	Cubic yards ledge.	Cubic yards earth.	Total cubic yds. excavation.	Cubic yards masonry foundation.	No. of Manholes.	Rate of grade in feet, per 100.	Cost of Labor.	Cost of labor per foot of length.	Cost of material, teaming, sharpening drills, etc.	TOTAL COST OF SEWER.	Cost per foot of length.	COMMENCED.	FINISHED.	REMARKS.	
		VITRIFIED PIPE.				BRICK.																					
		10 inch.	12 inch.	15 inch.	18 inch.	60 inch.	72 inch.																				
BY SPECIAL APPROPRIATION.																											
Acushnet avenue, No. 20,	Coggeshall to 60 feet north of Cedar Grove,	183.0						182.0	11.56	10.75					291	291	1	1.00, 4.77	\$175.43	\$2.46	\$32.10	\$32.10	\$3.18	Dec. 4, 1895,	Dec. 31, 1895,	See report for 1895.	
Acushnet avenue, No. 20,	Coggeshall to Bentley,		226.2					226.2	9.12	8.98					263	263		1.48	152.81	0.68	95.53	248.34	1.34	June 16, 1896,	June 22, 1896,		
Arnold street, No. 3,	Orchard to Arnold place,	307.8						307.8	5.33	4.50					154	154	1	0.50	111.20			111.20	0.74	Dec. 29, 1895,	April 27, 1896,	Unfinished.	
Belleville avenue, No. 8,	Washington to Kilburn,	311.8						311.8	7.34	6.04					210	210	1	1.55	101.51	0.33	131.64	233.18	0.74	April 17, 1896,	April 21, 1896,		
Borden street, No. 3,	Bedford to 100 feet south of Grove,	221.0						221.0	8.79	7.06	4.50	2.03	32	197	220		1	0.50	188.20	0.85	93.13	281.33	1.28	Nov. 24, 1896,	Dec. 1, 1896,		
Bourne street, No. 1,	Thompson to 100 feet south of Spooner,	298.5						298.5	12.10	8.55	5.70	2.70	70	278	348		1	5.35, 4.34, 6.38, 2.14	489.50	1.64	181.30	670.80	2.25	June 1, 1896,	June 11, 1896,	Unfinished.	
Butler street, No. 2,	Front to Acushnet avenue,	636.4						636.4	15.24	12.10				890	939		1	0.82	1,390.51		1,390.51	1,390.51	2.19	Dec. 2, 1895,	Dec. 2, 1895,		
Butler street, No. 3,	Acushnet avenue to Bowditch,	250.0						250.0	14.25	12.95				420	420		1	0.50	332.77	1.33	141.01	473.78	1.89	Feb. 26, 1896,	March 6, 1896,		
Chancery street, No. 3,	Maple to Clinton,	239.0						239.0	8.13	7.54				201	201	1	1	0.50	83.60	0.37	84.16	172.76	0.72	Oct. 23, 1896,	Oct. 26, 1895,		
Chancery street, No. 4,	Parker to Tilton,	678.8						678.8	9.33	8.12				613	613	1	1	1.20	399.74	0.59	212.83	612.57	0.90	Nov. 16, 1896,	Nov. 21, 1896,		
Cherry and Sixth streets,	Russell to Seventh,	628.2						628.2	9.21	8.43	5.50	4.04	42	645	687	1	1	1.15, 5.41	692.81	1.10	341.95	1,034.76	1.64	March 27, 1896,	April 16, 1896,		
Chestnut street, No. 3,	98 feet north of Locust to 54.50 feet south of Robeson,	378.7	70.0					446.7	9.40	8.91				442	442		2	3.06, 1.90	250.36	0.56	174.33	424.69	0.95	July 14, 1896,	July 18, 1896,		
Coggeshall street, No. 4,	Acushnet avenue to 100 feet east of Bowditch,							371.3	9.22	8.50	3.80	1.87	26	513	539		1	2.46, 1.90	635.74	1.11	206.88	842.62	1.47	Dec. 28, 1895,	Dec. 31, 1895,	See report for 1895.	
Cottage and Grove streets,	125 feet north of Grove in Cottage to 100 feet south of Grove in Borden,	344.7						344.7	12.15	11.47	8.30	5.03	143	236	439		1	1.92	1,180.94	3.42	517.14	1,698.10	4.30	Feb. 20, 1896,	March 24, 1896,		
Davis street, No. 3,	Acushnet avenue to 100 feet east of Bowditch,	320.7						320.7	12.58	10.57	4.70	2.35	91	1,224	1,315		2	2.83, 2.80, 5.71	1,325.85	1.38	381.85	1,907.70	1.90	Aug. 10, 1896,	Sept. 5, 1896,		
Deane street, No. 1,	Belleville avenue to Acushnet avenue,	120.0						120.0	5.72	5.66				75	75		1	0.50	80.61	0.67	64.68	145.29		Dec. 21, 1896,	Dec. 26, 1896,	Bills due.	
Fourth street, No. 4,	From north line of Thompson south 120 feet,	277.2						277.2	9.72	9.05	3.50	2.18	44	281	325		1	1.57, 1.48	402.98	1.45	193.79	596.77	2.15	June 10, 1896,	June 20, 1896,		
Front street, No. 11,	Coggeshall to 100 feet south of Beetle,	454.6						454.6	7.97	6.38	6.70	4.14	75	281	386		1	0.25	539.70	1.24	273.72	819.42	1.88	July 24, 1896,	Aug. 4, 1896,		
Front street, No. 12,	100 feet north of Clifford to 125.60 feet north of Delano,	307.3						307.3	7.87	6.92				236	236		1	0.50	110.80	0.36	109.71	220.51	0.72	Oct. 5, 1896,	Oct. 7, 1896,		
Hall street, No. 2,	Rivet to 100 feet south of Thompson,	250.7						250.7	10.31	8.39	3.30	2.06	21	212	233		1	0.90	257.90	1.03	106.85	364.75	1.45	July 9, 1896,	July 14, 1896,		
Harrison street,	80 feet north of Oak to Hickory,					162.3	721.3	883.6	18.10	11.78	5.60	4.00	74	2,945	3,019	1,517	3	0.00, 0.25	6,369.79	7.21	6,534.03	12,904.72	2.47	Aug. 3, 1896,	Dec. 12, 1896,	Bills due. Rebuilt.	
Howardland street, No. 3,	463.80 feet east of Prospect to Water,	481.0						481.0	12.00	11.82				737	737		1	2.00	884.00	1.77	337.07	1,191.07	2.47	June 22, 1896,	July 3, 1896,	Lowered.	
Kewpton street,	Summer to Cottage,	350.0						350.0	7.78	7.35				286	286		1	1.00	156.14	0.45	121.87	278.01	0.79	Oct. 20, 1896,	Oct. 22, 1896,		
Lowest street, No. 2,	Chestnut east 321.20 feet,	442.0						442.0	9.12	8.40				412	412		1	1.71, 4.25, 0.75	260.66	0.59	160.14	420.80	0.95	July 20, 1896,	July 24, 1896,		
Merrimac street, No. 2,	Cedar to Park,	518.0		755.0	20.0			775.0	13.54	11.91	5.50	3.14	79	885	994		2	1.02, 0.56, 1.50	1,525.15	1.65	1,018.59	2,543.74	2.75	Jan. 2, 1896,	Feb. 5, 1896,	See report for 1895.	
Mill street,	Acushnet avenue to 100 feet east of Bowditch,	642.2						618.0	12.73	10.69	3.00	2.60	15	703	718		1	3.50, 2.84, 0.75	926.10	1.79	349.14	1,275.24	2.46	Feb. 5, 1896,	Feb. 25, 1896,		
Nye street, No. 2,	Rockland to 111 feet south of Washington,	163.0						642.2	12.28	8.00				473	473		2	0.50, 2.85	339.52	0.51	222.32	561.84	0.86	Oct. 8, 1896,	Oct. 14, 1896,		
Orchard street, No. 5,	Union south 140 feet,							163.0	10.91	10.10				213	213		1	1.00	115.00	0.70	79.07	194.07	0.19	May 25, 1896,	May 28, 1896,		
Rotch street,	County west 376.50 feet,	174.0						174.0	9.80	9.70				219	219		1	1.23	96.00	0.33	10.60	10.60	0.09	Dec. 17, 1895,	Dec. 21, 1895,	See report for 1895.	
Siavannut avenue, No. 4,	Lowest to Tilton,	330.5						330.5	11.20	10.43				446	446		1	0.80, 1.82	207.20	0.63	128.20	335.40	0.91	July 6, 1896,	July 9, 1896,		
Union and Palmer streets,	Sisson to 117.80 feet north of Union in Palmer,																1				4.00	4.00	1.50	Nov. 27, 1895,	Dec. 21, 1895,	See report for 1895.	
Vine street,	Durfee to Mt. Vernon,	96.0						96.0	6.60	6.55	5.30	2.72	29	41	70		1	0.20	230.14	2.39	137.12	377.26	3.98	Nov. 16, 1896,	Nov. 24, 1896,		
Water street,	Clifford to Division,	765.5	118.0					883.5	12.00	9.21				1,054	1,054		1	3.27, 1.67, 1.33	520.22	0.51	313.69	833.91	0.94	May 15, 1896,	May 27, 1896,		
Weaver street,	From Rivet, through Dartmouth, Weaver, and Field streets to cemetery wall,																										
Total,		10,719.9	1,053.1	755.0	20.0	162.3	721.3	13,431.6					930	16,046	16,976	1,517	36		\$20,457.93		\$13,489.40	\$33,927.33					
BY GENERAL SEWER APPROPRIATION.																											
Abbott street,	From 250 to 478.5 feet south of East French avenue,	226.5						226.5										0.50	20.00			20.00				Pipe laid by city.	
Arnold place,	Arnold street to Rotch court,	457.4						457.4	10.86	9.62				570	570		1	0.66	286.33	0.62	151.60	437.93	0.96	April 27, 1896,	May 4, 1896,	Paid by A. P. Smith.	
Clinton street,	Chancery to Park,	280.2	31.5	10.0				280.2	8.13	5.92				184	184		1	1.02	104.21	0.37	160.23	264.49	0.94	Oct. 23, 1895,	Nov. 7, 1895,	Paid for by Morgan Rotch.	
Mt. Pleasant street,								41.5	13.12	12.86				70	70		1	1.00	105.10	2.53	79.57	184.67	4.45	May 7, 1896,	May 14, 1896,	Lowered. Paid by W. W. Dept.	
Total,		11,684.0	1,084.6	765.0	20.0	162.3	721.3	14,437.2					930	16,870	17,800	1,517	39		\$20,973.57		\$13,880.85	\$34,854.42					

13,031.10 feet, or 2.468 miles of new sewers. 1,406.1 feet, or 0.266 miles of sewers lowered or rebuilt.



## MISCELLANEOUS WORK.

## SURVEYS.

Buildings located Austin street, Wilson to Shawmut avenue, for change of grade.

House located southwest corner of Thompson and Hyacinthe streets, for layout.

Location of 87 buildings in 6 blocks in west part of city, for plan.

Location of 34 manholes on telephone conduit.

Location of houses on Jenny Lind street, with reference to layout of North and Hillman streets.

## LEVELS.

On ledge, Front street, Gifford to Delano, in W. W. trench.

Across Court, at Chancery, to determine wear of macadam.

Acushnet avenue, at Marvin, to determine wear of macadam.

Acushnet avenue, at Sawyer, to determine wear of macadam.

## PLANS.

Plan of section of city north of Nash road, for lithograph.

Plan showing harbor lines.

Plan of telephone conduits.

Tracing of Elisha Leonard's plan of city.

Map of city showing street pavements.

Profile of Jenny Lind street.

Plan of city wharves.

Plan and profile of Bowditch, Earle and Davis streets, for Architect.

Profile of Smith and County streets, northwest corner, for architect.

Profile of Linden and Purchase sts., northwest corner, for architect.

Profile of Union and Fifth streets, southwest corner, for architect.

Map of city corrected and ward lines added for atlas.

Plan of section bounded by Kempton, Ash and Allen streets and Rockdale avenue, showing all streets, lots and buildings, for reference in laying out new streets. [Partially completed.]

Plan showing Nash road extended from Mt. Pleasant street to Shawmut avenue.

Index of accepted streets corrected to Jan. 1, 1897.

Section plans of city, showing sewers, drains, etc., corrected.

Fifty-one sewer plans made in sewer book.

Nineteen sewer assessment plans made.

All street work done by Public Works Department, measured and results tabulated.

All drains laid by Public Works Department, located and record made.



## BOUND STONES SET.

- N. W. corner Arnold street and Arnold place.
- N. E. corner Arnold street and Arnold place.
- S. E. corner Belleville road and Acushnet avenue.
- S. W. corner Belleville road and Front street.
- N. W. corner Bowditch street and Nash road.
- N. E. corner Bowditch street and Nash road.
- W. line Bowditch street at south line of Jenney farm.
- W. line Bowditch street at Hatch laneway.
- W. line Bowditch street at Middle wall, Brooklawn park.
- S. W. corner Bowditch street and Tarkiln Hill road.
- N. E. corner Eugenia street and Acushnet avenue.
- S. E. corner Eugenia street and Front street.
- N. W. corner Eugenia street and Front street.
- N. E. corner Fourth street and Spring street. New line.
- S. E. corner Fourth street and Spring street, on line of Fourth, 1 ft. into Spring.
- N. E. corner Fourth street and School street, on line of Fourth, 1 ft. into School.
- S. E. corner Harrison avenue and Cove street.
- S. W. corner Hathaway street and Front street.
- N. E. corner Hathaway street and Front street.
- N. E. corner Nash road and Front street.
- N. W. corner Nash road and Front street.
- N. W. corner Purchase street and Middle street. New line.
- S. W. corner Purchase street and High street. New line.
- N. W. corner Purchase street and High street. New line.
- S. W. corner Purchase street and Kempton street. New line.
- S. E. corner Rotch court and Arnold place.
- N. W. corner Rotch court and Arnold place.
- S. E. corner Tinkham street and Front street.
- N. W. corner Tinkham street and Front street.
- S. E. corner Tinkham street and Acushnet avenue.
- N. E. corner Tinkham street and Acushnet avenue.
- S. W. corner Union street and Acushnet avenue. New line.
- S. E. corner Whitman street and Front street.
- N. W. corner Whitman street and Front street.
- Three bounds lowered.
- Town bounds set—At Clark's cove, near high water line.  
On south line of Hawthorn.
- Eight lines surveyed and 2 grades given for setting bounds.
- Lines of levels run to connect bench marks.



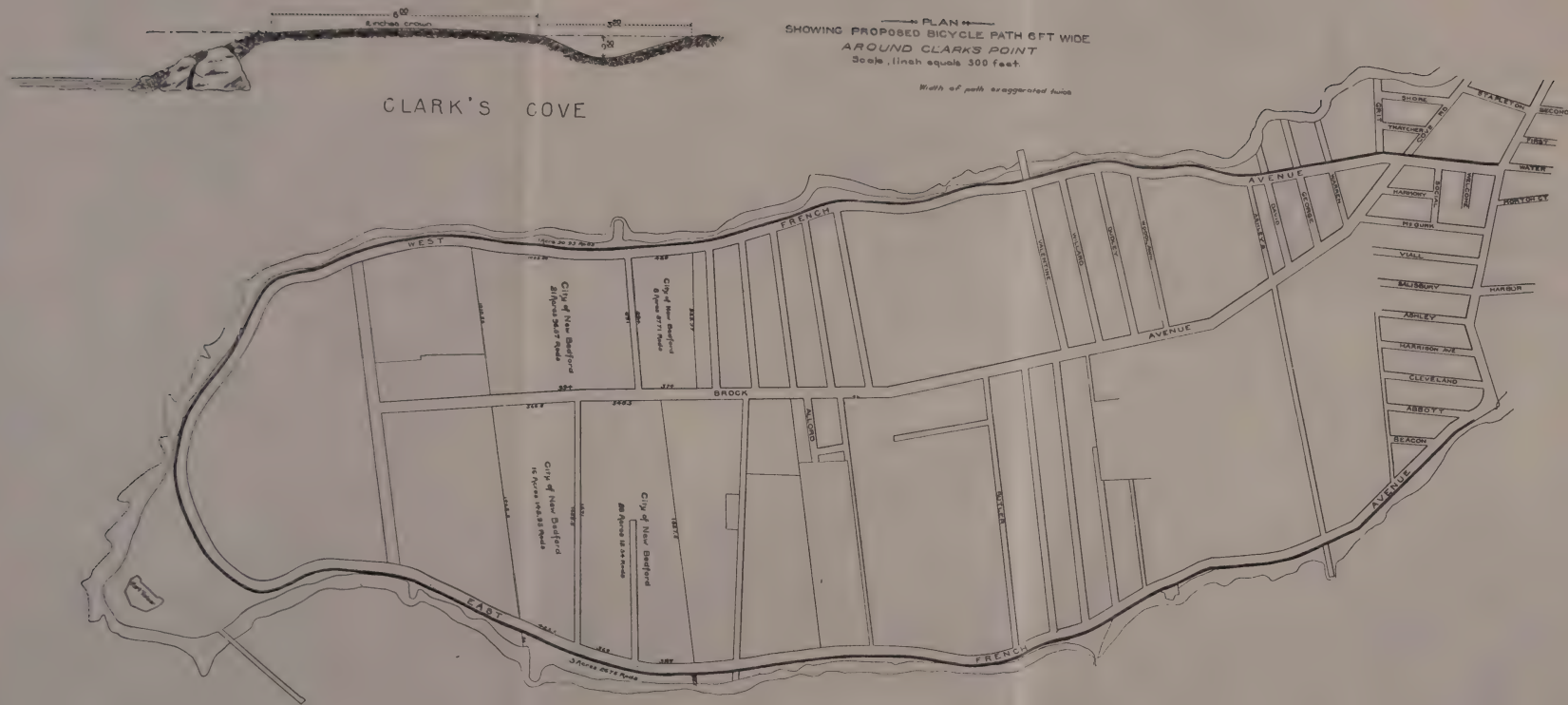
Cross-section of path  
Scale 1 inch = 1 foot.

— PLAN —  
SHOWING PROPOSED BICYCLE PATH 6 FT WIDE  
AROUND CLARK'S POINT  
Scale, 1 inch equals 300 feet.

Width of path exaggerated twice

CLARK'S COVE

ACUSHNET RIVER





## GRADE CROSSINGS.

## FIELD WORK.

- Located all tracks, switches, etc., of O. C. R. R. in New Bedford.
- Located and took levels on 840 buildings, in an area of 220 acres, or section  $2\frac{1}{2}$  miles long along track.
- Inspection of same for condition, plumbing, etc., relative to value or cost of moving.
- Levels taken on 32,140 feet, or 6.08 miles of streets.
- Cross-section at each 100 ft. of 33,800 ft., or 6.40 miles of R. R. track.
- Cross-section of gravel bank at Mt. Pleasant.
- Count made on from 3 to 7 days, of the number of trains, teams and persons at each crossing.
- Appraisal of all property north of Middle street affected by raising grade of tracks.

## OFFICE WORK.

- Three plans made on scale of 1 in. to 40 ft., showing all buildings, streets, tracks, etc., from Walnut to Nash road, adjoining tracks. Area of section, 220 acres.
- Cross-section at each 100 ft. of 31,800 ft., or 6 miles of main track.
- Profile of all tracks in New Bedford.
- Profile of 19,840 feet, or 3.75 miles of streets.
- Plan of section bounded by Walnut, Water, Middle, Second, North streets and the river, for rearrangement of tracks.
- Plan of section bounded by Elm, Second, North streets and the river, including Fish Island, for consideration of Middle st. crossing.
- Plan of section bounded by Maxfield, Acushnet avenue, Wamsutta streets and the river, for rearrangement of freight yards.
- Plan of section bounded by Logan, Front, Wall and Purchase streets, for consideration of Acushnet ave. and Wamsutta st. crossing.
- Plan of section bounded by Cedar Grove, Front, Linden, Pleasant and State streets, for consideration of Logan and Weld st. crossings.
- Plan of Logan street, Front to Purchase, to accompany profile.
- Plan of Bowditch street, Logan to Weld, to accompany profile.
- Plan of Weld street, Pleasant to Cedar Grove, to accompany profile.
- Cross-section plan of gravel hill, at Mt. Pleasant.
- Three plans of bridges at Middle street.
- Plan of crossing of new water main and Fall River branch at Mt. Pleasant.
- Map of city, to show amount of streets where grade is affected by carrying streets over tracks.
- Two plans, showing possible arrangement of tracks at Union street.
- Four plans, showing possible arrangement of tracks between Walnut and Hillman streets.

## PRIVATE PARTIES.

Grades for buildings, steps, lot curb, etc.,	238
Lines     "     "     "     "     "	31

## NEW BEDFORD WATER WORKS DEPT.

Grades for pipes, hydrants, etc.,	37
Line for pipe,	1
Survey and plan of house near conduit west of Acushnet avenue, south of Tallman street.	
Survey of house near conduit west of Acushnet avenue, north of Tallman street.	
Conduit right of way marked by stakes on each side and 100 ft. apart from reservoir to Belleville road, distance 1 mile.	

## PUBLIC PROPERTY.

Survey and plan of Public Library rooms, showing arrangement of rooms, bookcases, etc.	
Measurements of Rifle Range and supervision of work done.	
Dunbar Street school—Building staked out and batter boards set.	
Levels run to check     "     "	
Lot cross-sectioned for amount of fill.	
Clark Street school—Cross-section of original surface of lot.	
Cross-section of portion of lot after filling.	
Grade and lines for walks, steps, etc.	
Phillips Avenue school—Grade for grading lot.	
Clark's Point school—Plan of lot showing proposed change of land.	
Survey and plan of "Pound lot," Sherman street, for deed.	
Survey and plan of No. 5 Engine house and lot, corner of County and Hillman streets.	

## CITY SOLICITOR.

Cross-section, plan and photographs of the corner of Reed and Court streets.	
Survey, levels, plan and photographs of south side of Division street, opposite First street.	
Measurements of buildings and walk, northwest corner Walnut and First streets.	

## CEMETERY BOARD.

## RURAL CEMETERY.

Preliminary staking of 2 sections.

Final staking of 3 sections and portion of 1 section.

Plan of 4 sections.

Levels taken on 2 avenues.

Grades given on 1 avenue and 4 sections.

Tomb staked out and batters set for buildings.

Six plans, showing arrangement of drives and sections around tomb.

Graves in 20 sections located and entered in plat books for record.

Located and marked 1,138 graves in 6 plots of public ground.

Plans of same, with record of names as far as could be ascertained.

## OAK GROVE CEMEMERY.

Preliminary staking of 7 sections.

Final staking of 7 sections.

Plan of 7 sections.

Levels taken on 1 section and 7 avenues.

Grades given on 5 sections and 7 avenues.

Measurements of avenues for an estimate of concrete.

Measured 269<sup>1</sup>/<sub>2</sub> square yards of concrete.

East line of cemetery run north across property of J. B. Hadley.

Survey of entire cemetery for plan.

Located and marked 1,977 graves in 5 plots of public ground.

Plans of same, with record of names as far as could be ascertained.

## PINE GROVE CEMETERY.

Staked and made plan of 1 section.

IN BOARD OF ALDERMEN,

March 11, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,

City Clerk.

IN COMMON COUNCIL,

3 mo. 11th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.



1897—CITY DOCUMENT No. 12.

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# ANNUAL REPORT

OF

SUPERINTENDENT OF PUBLIC BUILDINGS,

ALSO

INSPECTOR OF BUILDINGS,

FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.

IN BOARD OF ALDERMEN,

September 9, 1897.

Received, ordered printed in the City Documents, and  
sent down for concurrence.

D. B. LEONARD,

City Clerk.

IN COMMON COUNCIL,

9 mo 9th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.

# REPORT

OF

## Superintendent of Public Buildings.

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OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS,  
NEW BEDFORD, MASS., Jan. 1, 1897.

*To His Honor the Mayor, and City Council of the City  
of New Bedford:*

GENTLEMEN:—In order to keep pace with the rapidly increasing school population, the erection of new school-houses has been the principal public building work of the past year.

The new Clark street schoolhouse of eight class rooms was finished in July and occupied in September, the beginning of the school year.

The State Inspector, in his official report, has pronounced the heating, ventilation and sanitary arrangements of this school as excellent, and says he considers it as being among the modern model school buildings of the State.

The Phillips avenue schoolhouse of eight class rooms will be completed in February next, and will be occupied in the April school term. The erection of this building has taken more than the usual time, owing to the suspension of work on the walls during the winter months.

It has been deemed best in the erection of these build-

ings to thoroughly dry the walls and timbers before plastering, and also to keep the building moderately warm while the interior finish is being put up.

The time and expense involved in doing this is more than compensated for by the excellent results obtained.

The new eight room Dunbar street schoolhouse was put under contract last June, and is now ready for plastering, and will be completed and occupied next September.

Plans for an eight room schoolhouse have been adopted by the Committee on City Property, to be erected on the site of the old school on Brock avenue, (Clark's Point). Proposals for the erection of this building have been received and are now before your honorable body for consideration.

All the school buildings above mentioned are of brick construction, having brick partition walls throughout; wood partitions and wood wall furnishings and laths being entirely eliminated.

The walls of corridors, vestibules and stairways are practically devoid of woodwork and plastering, being finished in smooth brick, painted.

Our best local granite is used for trimmings; the roofs are covered with the best Maine slate; cornices, gutters and leaders are of heavy copper.

The system of heating and ventilation that has proved so successful in the Madison street school has been installed, together with an improved system of sanitation.

The buildings are from designs by our local architects, and are built (with one exception) by local contractors and mechanics, and reflects much credit on all concerned.

From my own observation and what I have learned from outside building experts, I am able to say that our new schoolhouses have been erected at less cost than similar buildings in other parts of the State.

The Merrimac street school has received extensive repairs, being newly plastered throughout, and having new school sanitariums properly ventilated installed in the basement, with a new drainage system connecting with the street sewer, the old closets in the school yard which had become a nuisance, not only to the school but to the neighborhood, were removed, and the yard graded and curbed.

New slate blackboards have been provided, and other repairs made, and the whole interior woodwork painted.

Much needed repairing has been done in the different schools, under the direction of the School Committee.

For the Fire Department at the Weld street station, a new brick addition has been built, to be used as a waiting room.

At the Central station, a new ventilating plant is now being installed. This is intended to ventilate the men's sleeping rooms, bath room, &c., as well as the stable.

New sanitary stall pans are provided in the stable and connected with the street sewer. The stable cellar, which heretofore had been a receptacle for the stable dressing, has been cleaned out and whitewashed. The dressing will in future be taken semi-weekly to the city farm.

This treatment should be, at an early day, accorded to all the city's fire stations.

At the request of the Cemetery Commission, a new receiving tomb, designed by S. C. Hunt, architect, has been erected at Rural cemetery. This is built of a unique combination of field stone, with Assonet granite buttresses, arches, cornices and other trimmings; having a slate roof, copper gutters and leaders, heavy slate doors and wrought-iron gates; and is well adapted for the purpose for which it was designed.

The ward room on Sherman street has been moved south to River street and put in repair.

Some minor repairs have been made at the different

police stations and ward rooms, under the direction of the proper committee.

Respectfully submitted,

EDMUND O'KEEFE,

Supt. Public Buildings.



REPORT  
OF  
INSPECTOR OF BUILDINGS.

IN BOARD OF ALDERMEN,  
September 9th, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,  
City Clerk.

IN COMMON COUNCIL,  
9th mo. 9th, 1897.

Concurred.

WM. A. MACKIE,  
Clerk.

# REPORT.

## BUILDING STATISTICS FOR 1896.

Whole number of permits issued during the year for new buildings, alterations and repairs, was 794, the estimated value being \$1,687,396.00. Classified as follows :

Buildings for manufacturing purposes,	\$69,895.00
Dwellings, singly and in blocks,	960,900.00
Stores and dwellings combined,	74,650.00
Charitable institutions and churches,	35,875.00
Business buildings—stores and offices, theatre and banking house,	306,525.00
City buildings—new completed and old repaired,	49,076.00
Additions to dwellings and buildings moved, altered and repaired,	113,056.00
Miscellaneous structures—stables, sheds, &c.,	77,419.00
	<hr/>
	\$1,687,396.00

Number of new dwellings erected, 378—containing 865 tenements.

Number of tenements over stores added, 55; making total number of tenements erected, 920.

Number of permits during 1895,	554
Increase for 1896 over 1895,	240
Number of dwellings erected in 1895, was	201
Increase for 1896 over 1895,	177
Increase in number of tenements,	419

Copies of our building ordinances and of the State laws relating to buildings have been distributed among our builders and others interested in building. It is gratifying to note a cheerful compliance on the part of builders and others (with rare exceptions) with these laws.

The ordinance and building regulations of 1895 and

1896, whereby additional safeguards are provided to prevent the rapid spread of fire, are productive of much benefit to owners as well as occupants of stores and tenements.

I would recommend that an ordinance be passed, to provide better foundation walls and supports under high or heavy buildings; also, to provide that where one family or more are to occupy any tenement building above the first story, that two flights of stairs shall be provided to reach every story of such tenement house, so as to provide safe exit in case of fire.

The distance apart at which wooden buildings on adjoining lots should be placed ought to be defined by ordinance.

Also, to prevent the erection of stables of any kind nearer than a certain limited distance to dwellings.

Respectfully submitted,

EDMUND O'KEEFE,

Inspector of Buildings.







1897—CITY DOCUMENT No. 13.

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REPORT

OF THE

BOARD

OF

OVERSEERS OF THE POOR

OF THE

CITY OF NEW BEDFORD,

FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.



# MEMBERS OF THE BOARD.

---

JAMES E. STANTON,  
CHARLES S. PAISLER,  
CHARLES A. B. PETERSON.

---

# OFFICERS OF THE BOARD.

---

JAMES E. STANTON,  
*Chairman and Secretary.*

ELLA F. BUCKLYN,  
*Clerk to the Board.*

HARRY L. STEVENS,  
*Physician to the Board.*

AUGUSTUS A. WOOD,  
*Visitor to the Board.*

AXEL H. JACKSON,  
*Superintendent of Almshouse.*

MRS. ALBERT A. CHACE,  
*Matron of Almshouse.*

REV. EDWARD WILLIAMS,  
*Chaplain of Almshouse.*

STEPHEN P. COFFIN,  
*Superintendent of Wood and Coal Yard.*



# REPORT.

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*To His Honor the Major, and the City Council of the City of New Bedford.*

GENTLEMEN:—We have the honor to herewith present to you the annual report for the year ending December 31, 1896.

The total appropriations, subject to the control of this Board for the year 1896 were \$40,500.00. There was expended the sum of \$40,126.00, leaving \$374.00 as an unexpended balance, which reverted to the city treasury.

There has been during the year reimbursements for the support of poor, on account of the Commonwealth, \$1,547.17; from cities and towns, \$2,099.16; from the county treasury, \$126.86; from individuals, \$1,898.52; from farm produce, \$625.40; making a total of \$6,297.11, which sum has been paid to the city treasury, leaving the net expenditure on account of the poor, \$33,828.89.

The support of the insane at the hospitals in the Commonwealth has within the last five years increased about thirty-three per cent., with a prospect of a proportional increase in the years that are to come, requiring a like increase in the annual appropriations.

The attention of the city government is again called to the recommendations of this Board, made in the last annual report, for a better classification of the inmates by a separation of the workhouse department from the pauper department, either by the erection of new buildings or by a rearrangement or reconstruction of some of the buildings now in use. We are of the opinion, however, in

view of the increasing number admitted and committed to the institution, that it would be found a wiser economy to construct new buildings than to remodel old ones. The Board are clearly of the opinion that means should be provided for an entire separation of the workhouse and almshouse departments.

The Board having received various complaints in regard to the condition of the water supply at the almshouse, this Board requested the Board of Health to investigate the character of the water supplied for the use of the inmates, resulting in the condemnation of the water as unfit for use, by letters under date of May 7th and July 10th. The matter was brought to the attention of the City Council by the Board of Health, and to the citizens by articles in the daily papers. It was referred to the Water Department, Oct. 8, 1896, but we are not aware, up to the present time, that any action has been taken to improve the water supply at the almshouse. This water too seriously affects the health of every person at the almshouse to admit of longer delay.

Owing to the continued business depression, the number of applications for outdoor relief have been about the same as last year. During the summer months a considerable falling off, only to be largely augmented with the approach of cold weather, coming in with steadily increasing numbers up to the close of the year. The Board has continued the policy of investigation and visitation at the homes of the applicants with beneficial results, by exposing the unworthy and fraudulent applications, and again demonstrating that the most deserving of our worthy poor are the least persistent applicants. Mr. A. A. Wood, the visitor of the Board, who is charged with the duty of visitation, has been zealous and industrious in the discharge of his onerous duties.

The officers of the Board are the same as last year, with the exception that Harry L. Stevens was elected physician



to the Board January 6th, vice Edwin E. Waite, term expired. Dr. Stevens has faithfully performed the duties of city physician to the entire satisfaction of this Board.

Mr. Albert A. Chace, who had been an employe in the almshouse in various capacities for twenty-nine years, and has filled the office of superintendent since Sept. 15, 1893, died in office Feb. 21, 1896, after a brief illness. The Board here desire to put upon record their sincere appreciation of the fidelity with which Mr. Chace performed the duties imposed upon him by this Board. The Board and the city have lost a painstaking and worthy officer and citizen.

On Feb. 26, 1896, Axel H. Jackson, who has served in various positions at the almshouse for the past ten years, was elected superintendent, and is still in office.

We desire to call especial attention to the annexed table, giving a detailed statement of the receipts and expenditures of the Board, statistics of outside relief, and of those in relation to the almshouse and workhouse departments, together with the report of the physician to the Board.

In conclusion, the Board feel under obligations to all the employes for their courtesy, kindness and fidelity in the performance of their several duties.

Respectfully submitted,

JAMES E. STANTON,  
CHAS. S. PAISLER,  
CHAS. A. B. PETERSON.

## FINANCIAL STATEMENT.

DR.

To amount of appropriations, \$40,500.00

CR.

By amount expended as per monthly audits, as follows :

Months.	Outside Relief.	Lunatic Hospitals.	Cities and Towns.	Alms-house.	Totals.
January,	\$1,402.29	\$2,664.72	\$379.70	\$1,105.72	\$5,552.43
February,	1,634.77			919.49	2,554.26
March,	1,475.70		3.00	876.35	2,355.05
April,	1,423.90	2,352.52		909.75	4,686.17
May,	1,152.83	152.01	10.52	1,188.69	2,504.05
June,	1,215.38			926.89	2,142.27
July,	1,241.11	2,451.91	241.77	961.44	4,896.23
August,	1,072.52			923.64	1,996.16
September,	1,377.26			927.50	2,304.76
October,	1,706.77	2,596.12	6.00	986.39	5,295.28
November,	1,151.32	112.94		1,288.92	2,553.18
December,	1,554.56		372.47	1,359.13	3,286.16
Totals,	\$16,408.41	\$10,330.22	\$1,013.46	\$12,373.91	\$40,126.00

# EXPENDITURE IN DETAIL FOR OUTSIDE RELIEF IN 1896.

MONTHLY AUDITS.	Groceries.	Lunatic Hospitals.	Cities and Towns.	Cash Orders.	Salaries.	Physician and Medicine.	Burials.	Boots and Clothing.	Transportation.	Horse Hire.	Office Expense.	Stationery and Printing.	Board Outside.	Wood and Coal Yard.	Totals.
January,	\$677.00	\$2,664.72	\$379.70	\$199.40	\$204.16	\$135.00	\$81.00	\$4.00			\$1.25	\$13.13		\$87.35	\$4,446.71
February,	533.50			163.50	220.82	135.00	99.00	9.03			1.35	6.61		466.96	1,634.77
March,	715.50		3.00	185.65	212.49	135.00	31.80	4.00		\$11.00	50.35		\$58.71	71.20	1,478.70
April,	608.50	2,352.32		212.57	212.49	135.00	179.00	12.94				.75		62.65	3,776.42
May,	388.50	152.01	10.52	176.10	212.49	135.00	109.00	4.04		1.50	68.80	11.61		45.70	1,315.36
June,	540.10			134.47	212.49	135.00	101.00	2.77			41.75	8.80		39.00	1,215.38
July,	489.95	2,451.91	241.77	215.89	212.49	135.00	130.00		\$25.00				19.28	38.50	3,934.79
August,	416.00			129.33	212.49	135.00	112.50				2.50			39.70	1,072.52
September,	667.78			207.14	212.49	135.00	109.00	.50				4.55		40.80	1,377.26
October,	457.00	2,596.12	6.00	150.20	212.49	135.00	56.00	7.75		5.00	50.00	4.03		629.30	4,308.89
November,	510.75	112.94		187.40	212.49	135.00	38.00							67.68	1,264.26
December,	\$20.00		372.47	133.05	212.61	135.00	102.50	22.82			2.45	10.77	37.26	78.10	1,927.03
Totals,	\$6,824.58	\$10,330.22	\$1,013.46	\$2,094.70	\$2,550.00	\$1,620.00	\$1,148.80	\$67.85	\$25.00	\$17.50	\$218.54	\$60.25	\$115.25	\$1,465.94	\$27,752.09

# DETAILED EXPENDITURES AT THE ALMSHOUSE, 1896.

Months.	Flour and Grain.	Dry Goods and Clothing.	Beef, Fish, etc.	Groceries.	Shoes, Hats and Leather.	Furniture and Crockery.	Hardware.	Fuel.	Repairs on Premises.	Carriage Repairs and Blacksmithing.	Superintendent, Labor and Nursing.	Medicine.	Oils, paints, etc.	Dressing.	Miscellaneous.	Totals.
January,	\$83.55	\$86.36	\$94.23	\$199.84	\$30.82	\$2.69	\$13.22	\$213.33	\$17.48		\$310.87	\$38.38		\$13.40	\$1.55	\$1,105.72
February,	57.79	34.08	76.88	166.98	20.91	14.32	9.66	144.96	78.96	\$15.00	245.82	49.73	\$4.40			919.49
March,	81.72	25.34	105.77	150.94	19.42	1.60	7.98	139.65		12.50	303.62	27.81				876.35
April,	94.45	49.68	83.00	232.41	21.66	1.80	10.65	61.14	11.93	9.20	307.73	26.10				909.75
May,	68.59	39.87	81.03	122.56	19.60	11.98	21.47	35.07	23.84	70.12	317.23	24.33			353.00	1,188.69
June,	62.80	56.52	92.23	132.77	20.90	20.28	17.33	47.48	9.11	110.14	319.01	26.92			11.40	926.89
July,	84.03	59.42	91.31	160.93	7.94	7.00	30.79		52.58	36.86	407.94	22.64				961.44
August,	96.02	9.03	89.26	241.20	41.16			71.67	2.63	8.43	332.94	24.55			6.75	923.64
September,	81.42	67.32	94.72	192.95	20.80	3.25	12.40	51.16	12.25	30.11	319.01	36.16	5.61		.30	927.50
October,	84.94	76.47	92.53	166.03	33.54	22.64	13.24	98.11	2.29	7.50	323.94	27.56	.90		36.70	986.39
November,	137.75	66.72	109.52	144.06	28.06	2.00	31.66	266.44	142.05	10.60	322.53	27.53				1,288.92
December,	57.03	88.78	77.02	173.77	33.28	4.87	12.69	50.39	4.00	50.56	329.02	22.30	4.20	415.02	35.50	1,359.13
Totals,	\$990.69	\$659.59	\$1,087.50	\$2,084.48	\$298.09	\$92.43	\$181.09	\$1,179.40	\$357.12	\$261.12	\$3,839.66	\$354.01	\$15.11	\$428.42	\$445.20	\$12,373.91

## STATISTICS OF OUTSIDE RELIEF.

Gross cost of persons outside of almshouse, 1896,	\$27,752.09
Amount paid for support of persons in State lunatic hospitals, and in other cities and towns chargeable to this city,	11,343.68
Number of families aided in 1896,	528
“ “ Settlement here,	257
“ “ Settlement elsewhere,	83
“ “ State paupers,	188
Number of persons aided:	
“ “ Settlement here—Males, 240; females, 534.	
“ “ Settlement elsewhere—Males, 167; females, 203.	
“ “ State paupers—Males, 341; females, 363.	
Average cost of aid to each family yearly,	\$31.07
“ “ “ person yearly,	8.87

## TRANSPORTATION.

Number of persons sent to their homes,	14
Number of persons sent to State Almshouse,	61

## BURIALS.

Males, 57; females, 56,	113
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## INSANE.

Number of insane at asylums during the year—Males, 32; females, 46.	
Remaining at city expense, Dec. 31, 1896:	
At Taunton Lunatic Hospital,	46
Wesborough Insane Hospital,	2
Worcester Insane Asylum,	1
Worcester Lunatic Hospital,	2
Medfield Insane Hospital,	4
State Almshouse Hospital,	1

## PAUPERS AIDED ELSEWHERE,

But having settlement here (exclusive of lunatics)—Families, 22; persons, 52.	
Amount paid for their support in 1896,	\$1,013.46

## ALMSHOUSE REGISTER.

Number remaining, December 31, 1895,

85

MONTHS.	ADMITTED.	DISCHARGED.	REMAINING.
January,	6	4	87
February,	5	4	88
March,	8	10	86
April,	15	24	77
May,	11	14	74
June,	15	13	76
July,	18	17	77
August,	5	8	74
September,	6	2	78
October,	8	3	83
November,	13	10	86
December,	7	15	78
Totals,	117	124	

Whole number during the year, 202

Discharged during the year, 124

Remaining December 31, 1896, 78

Average daily number, 83

## PRODUCTS OF FARM FOR 1896.

Hay,	84 tons.
Straw,	7 tons.
Potatoes,	551 bushels.
Carrots,	20 "
Onions,	55 "
Turnips,	230 "
Parsnips,	20 "
Peas,	40 "
String beans,	20 "
Dried beans,	10 "
Sweet corn,	700 dozen ears.
Cabbage,	1,000 heads.
Milk,	23,498 quarts.
Eggs,	1,014 dozen.
Fowl,	690 pounds.
Pork,	7,150 "
Veal,	658 "
Beets,	14,900 "
Squashes,	6,450 "
Celery, tomatoes, melons and cucumbers in abundance.	



## WORKHOUSE REGISTER.

Number remaining, December 31, 1895,

15

MONTHS.	ADMITTED.	DISCHARGED.	REMAINING.
January,	2	2	15
February,	3	0	18
March,	5	4	19
April,	1	3	17
May,	0	2	15
June,	0	1	14
July,	12	2	24
August,	4	4	24
September,	4	9	19
October,	3	1	21
November,	1	4	18
December,	4	5	17
Totals,	39	37	

Whole number during the year,	54
Discharged during the year,	37
Remaining December 31, 1896,	17
Average daily number,	19

# REPORT OF THE PHYSICIAN

TO THE

## BOARD OF OVERSEERS OF THE POOR.

---

GENTLEMEN:—I herein submit to you a report of the work done by myself for the Board during the year.

Whole number of house visits made, sixteen hundred and nineteen (1,619). Number of office consultations, four hundred and forty-one (441). The almshouse was visited one hundred and twenty-two (122) times. There occurred during the year, forty-four (44) deaths. There were twenty-three (23) cases of childbirth.

Now that the necessity for two physicians has been realized, I feel a pardonable pride in the general satisfaction I have given the poor, and the lively gratitude with which the greater number have greeted my efforts.

To the Board of Overseers of the Poor I acknowledge my sincere appreciation for their uniform kindness.

The clerk, visitor, superintendent of almshouse and his attaches have ever been most courteous, and added greatly toward making my relations with the Poor Department such as will always be pleasantly remembered.

Very truly yours,

HARRY L. STEVENS.

IN BOARD OF ALDERMEN,

March 25, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,

City Clerk.

IN COMMON COUNCIL,

3 mo 25th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.



1897—CITY DOCUMENT No. 14.

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# THIRD ANNUAL REPORT

OF THE

# DEPARTMENT OF PARKS

OF THE

City of New Bedford,

1896.



NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS,

1897.





## COMMISSIONERS.

---

DAVID L. PARKER,  
ARTHUR L. BLACKMER,  
GEORGE F. BARTLETT,  
CHARLES O. BRIGHTMAN,  
JOHN ELDRIDGE, JR.

---

## OFFICERS.

---

CHAIRMAN EX-OFFICIO,  
DAVID L. PARKER.

---

SECRETARY,  
WILLIAM S. COOK.

---

SUPERINTENDENT,  
CHARLES F. LAWTON.



# REPORT.

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CITY OF NEW BEDFORD,  
OFFICE OF PARK COMMISSION,  
ODD FELLOWS BUILDING,  
January 4, 1897.

*To the City Council of the City of New Bedford.*

GENTLEMEN :—The Board of Park Commissioners herewith present for your consideration their third annual report, for the year 1896.

## PARK COMMISSION.

At the first meeting in the year, the Board organized with Hon. David L. Parker, Mayor, Chairman ex-officio; Arthur L. Blackmer, President of the Common Council; George F. Bartlett, Savory C. Hathaway, and Charles O. Brightman.

At the annual organization in May, Charles F. Lawton was reelected Superintendent, and William S. Cook, Secretary. In December, Savory C. Hathaway resigned from the Board, and he was succeeded by John Eldridge, Jr. Mr. Hathaway was a firm believer in and an ardent supporter of the development of our Park System.

During the year, thirty-six meetings have been held.

The work of the year has consisted almost entirely of the maintenance and care of our parks as they now exist.

As year follows year, the attendance at the parks steadily increases, and the cost of caring for the visitors and keeping the parks in condition grows correspondingly, so

that the appropriation of \$10,000 made by your honorable body was nearly all expended in this way.

Brooklawn Park, owing to its more developed condition, has attracted more of our people during the year than at any time since the park was opened. The work here has consisted mainly of improving the present property and continuing its good condition. The pond near the main entrance on Acushnet avenue has been enlarged, and is now one of the prettiest features of the park. The attendance here has increased so rapidly that it was found necessary to increase the force in charge of the park, so that four men are now continually employed.

The Common, in its remodelled condition, with the new layout of paths, flower beds and grass plots, takes high rank in our list of breathing spots. Being so located, it is peculiarly adapted to the purposes of a public common, and the outlay made there in 1895 has proved to have been a wise move by the great number of laboring people who have visited it in search of a little rest during the cool evenings and at the noon respite from work. The flower beds and shrubberies have been so cared for that they are now in excellent condition.

The general condition of Buttonwood Park remains unchanged. Both summer and winter the pond here proves an attraction of great worth. During the warm weather, the visitors at Buttonwood patronize the boats upon the pond; and in winter, the pond, when in condition for skating, is visited daily by thousands of skaters. Recognizing the fact that the attractions at this park are limited in the warm season, it has been the aim of the commissioners to afford all the comfort possible for those who desire to take advantage of the skating. Besides providing warm waiting rooms, the skating surface is now lighted by arc lights, and the Board has under considera-

tion the question of permitting the erection of buildings to be used for the sale of refreshments.

With the exception of grading and curbing Triangle Park, no work of improvement has been done upon the other parks.

The sea-wall at Marine Park, damaged by the sea, required some repairing early in the year.

Attention is respectfully called to the recommendations contained in the Superintendent's report, and the statement of expenditures by the Secretary, both of which are attached hereto, and made a part of this report.

Respectfully submitted,

DAVID L. PARKER,  
ARTHUR L. BLACKMER,  
GEORGE F. BARTLETT,  
CHARLES O. BRIGHTMAN,  
JOHN ELDRIDGE, JR.,

Park Commissioners.





THIRD ANNUAL REPORT  
OF THE  
SUPERINTENDENT OF PARKS  
FOR THE YEAR 1896.



# Superintendent's Report.

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OFFICE SUPERINTENDENT OF PARKS.

ODD FELLOWS BUILDING,

January 4, 1897.

*To the Park Commissioners of the City of New Bedford.*

GENTLEMEN :—The third annual report of the work of this Department, for the year 1896, is herewith submitted.

Following the plan of previous reports, I will take up the different parks in their order.

## BROOKLAWN PARK.

Early in the season, a base ball field was laid out in the Spooner lot, affording the north-end boys a good playground; and its constant use shows that it is fully appreciated.

The duck pond near Acushnet avenue has been enlarged, as suggested in my report of last year, adding greatly to its beauty and usefulness.

A large arched sign has been placed over one of the entrances. Two driveways have been constructed branching from the south entrance driveway, and the circular drive about the central lawn has been slightly widened.

All trees and brush on the line of Bowditch street have been removed. Many of the old stone walls have been removed and hauled to the city crusher. In return, we have made use of the screenings from the crusher to improve the condition of the avenues within the lines of the park. The Sunday afternoon band concerts were con-

tinued during the summer, and attracted large numbers. The animals and birds are all in good condition, and during the year we have received as gifts the following :

One monkey, from Mrs. Samuel Look, Vineyard Haven.

One alligator, from Boston Beef Co., New Bedford.

One hen hawk, from Thos. J. Robeson, New Bedford.

A few words now as to additional improvements needed. The overflow from the pond should be carried in 24-inch pipe to the culvert under Acushnet avenue, and the grade of the land between the pond and the avenue raised.

The skating-pond, which I suggested in last year's report, would, I believe, be a source of great pleasure to many in winter, when other outdoor sports are not to be had. The ponds in the north end of the city which many of us skated on when we were boys now no longer exist, and there remains only the river, always as we know a treacherous attraction. By the expenditure of one thousand dollars for the necessary grading, walling and sluiceways, a safe, shallow skating-pond can be obtained.

I would again recommend that the avenues, especially the wood drive, be increased in width ; and also that foot-paths be built alongside the avenues. In the summer time, when large crowds come to the park, the driveways are apt to be dusty, and their use by pedestrians is not only disagreeable to the latter, but is an inconvenience to the passage of carriages.

#### BUTTONWOOD PARK.

A sign similar to the one at Brooklawn has been placed in a conspicuous place north of Court street. A base ball field has been laid out in the lot south of Court street, and was used a great deal all through the summer.

The drive at the west end of the park has been extended around the deer-pen.

The animals are all in good condition. During the year we have received the following :

Four foxes, from Thomas Pratt.

Six white Angora rabbits, from Paul E. Hathaway.

We have now five handsome deer, two of which were born at the park last June.

The two bears are as fine specimens of their kind as can be found anywhere, and afford much amusement to young and old. It would be well to build in connection with the present bear-pen, an additional small inclosure, into which the bears could be driven when it became necessary for anyone to enter the pen. The bears have developed in age and strength so that it might be dangerous to enter their presence.

As the fruit raised on the park is all fed out to the various animals, it would be well to provide a cellar in which this fruit could be stored. We have been using a cellar belonging to private parties some distance from the park.

The skating-pond has attracted large numbers, and with the use of an ice-plane recently built, we expect to be able to provide skating a large part of the winter.

#### MARINE PARK.

A portion of the sea-wall, which was knocked down by the sea in the early part of the year, has been rebuilt. This wall should be backed up with stone or gravel and a good walk built the entire distance around the fort on the inside of the wall.

A pump has been placed at one of the wells west of the fort, furnishing good drinking water to visitors.

A sign similar to those at Brooklawn and Buttonwood has been placed between the avenue and the fort.

#### GROVE PARK.

No improvements have been made here.

## COMMON.

Care has been taken to preserve all the improvements made in 1895, and make such additions as could be done without special appropriation. A large number of flower beds have been laid out, and an effort will be made to add largely to the beauty of this park the coming year.

## TRIANGLE PARK.

This little patch of ground has been graded, seeded and curbed, and a concrete sidewalk laid all around. A few trees and flower beds will add greatly to the appearance of this park.

Respectfully submitted,

C. F. LAWTON,

Superintendent.

SECRETARY'S  
Third Annual Statement  
OF  
PARK EXPENDITURES.





## Secretary's Report.

---

NEW BEDFORD, Jan. 4, 1897.

*To the Chairman and Members of the Park Commission.*

GENTLEMEN :—I submit herewith the third annual statement of the receipts and expenditures of the Department of Parks for the year 1896. The tables, in addition to showing the cost of maintaining the park system for the year closed, give the entire cost of the purchase and maintenance of the parks to date.

Respectfully submitted,

WM. S. COOK,

Secretary.

## STATEMENT OF PARK EXPENDITURES.

COMPARATIVE STATEMENT OF EXPENDITURES.		ITEMIZED STATEMENT OF EXPENDITURES.	
			1892-3-4-5-6.
1892,	\$77,936.87	Buttonwood Park,	\$52,276.18
1893,	5,734.79	Brooklawn Park,	48,502.90
1894,	24,458.95	Common,	17,247.11
1895,	21,321.17	Marine Park,	8,541.94
1896,	10,054.26	*City Hall Square,	462.67
		Triangle Park,	606.52
		Grove Park,	8,981.05
		Pine Grove Park,	632.58
		Office and miscellaneous,	2,255.09
			\$139,506.04

\*Now maintained by Committee on Public Property.

## FINANCIAL STATEMENT FOR THE YEAR 1896.

Dr.	Cr.
Buttonwood Park,	\$10,000.00
Brooklawn Park,	83.17
Common,	
Marine Park,	
Triangle Park,	
Grove Park,	
Office expenses,	
Balance carried to unappropriated funds,	
\$2,658.89	
3,981.84	
1,966.78	
264.69	
487.58	
76.81	
617.67	
28.91	
\$10,083.17	\$10,083.17

## MAINTENANCE OF BUTTONWOOD PARK.

Blacksmithing,	\$22.48		
Teaming,	12.08		\$78.00
Animals and maintenance,	366.80		2,580.89
Police,	334.60		
Tools and repairs,	31.12		
Labor, filling, grading, etc.,	696.91		
Keeper,	728.00		
Supplies, lumber, etc.,	271.14		
Labor, general,	185.40		
Miscellaneous,	10.36		
	<hr/>	\$2,658.89	<hr/>
			\$2,658.89

## MAINTENANCE OF BROOKLAWN PARK.

Blacksmithing,	\$14.88		
Teaming,	254.46		
Supplies,	522.79		
Tools and repairs,	69.62		
Animals and maintenance,	160.95		
Labor, filling, grading, etc.,	688.97		
Keepers,	1,870.56		
Police,	106.60		
Labor, general,	261.07		
Miscellaneous,	31.94		
	<hr/>	\$3,981.84	<hr/>
			\$3,981.84

## MAINTENANCE OF MARINE PARK.

Labor on wall, etc.,	\$250.04		
Pump and supplies,	34.65		
	<hr/>	\$264.69	<hr/>
			\$264.69

## MAINTENANCE OF COMMON.

Blacksmithing,	\$2.75		
Teaming,	48.86		
Supplies, plants, etc.,	267.48		
Tools and repairs,	64.44		
Light,	125.00		
Labor, general and gardeners,	928.75		
Keeper,	529.50		
		\$1,966.78	\$1,966.78

## MAINTENANCE OF TRIANGLE PARK.

Grading,	\$5.33		
Sowing,	6.00		
Concrete and curbing,	461.75		
Sand,	14.50		
		\$487.58	\$487.58

## MAINTENANCE OF GROVE PARK.

Teaming,	\$2.00		
Labor, clearing,	73.25		
Miscellaneous,	-1.56		
		\$76.81	\$76.81

## OFFICE EXPENSES.

Salaries, clerk and superintendent,	\$600.00		
Reports and stationery,	17.67		
		\$617.67	\$617.67

TO WHOM AND FOR WHAT MONEY WAS PAID  
DURING 1896.

Feb. 11.	P. Black, fixing topmasts,	\$4.23
	C. H. Brownell & Sons, supplies for animals,	23.11
	Denison Bros. Co., coal,	10.50
	Highways and streets, carting flagstaff topmast,	.67
	“ “ blacksmithing,	1.40
	C. G. & G. A. Randall, lumber and carting,	4.92
	Geo. D. Richards, teakettle,	1.50
	Isaac C. Sherman & Son, apples and peanuts,	20.12
	P. Black, housing topmast,	4.23
	Highways and streets, carting flagstaff,	.67
	“ “ kerosene and paint,	5.05
	New Bedford Cordage Co., manila whale line,	10.40
	“ “ hemp filling,	6.71
	H. B. Remington, use of team,	7.50
	E. C. Taber, supplies for animals,	22.63
	P. Black, removing flagstaff topmast,	4.23
	N. B. Gas & Edison Light Co., lights,	10.20
	Highways and streets, moving flagstaff,	.67
	“ “ kerosene,	.11
	“ “ moving settees,	2.00
Mar. 11.	E. Anthony & Sons, letter heads,	1.25
	F. L. Sowle & Co., supplies,	1.50
	Wood, Brightman & Co., supplies,	.79
	Highways and streets, blacksmithing,	.50
	“ “ scraping snow from pond,	139.32
	“ “ carting cage,	.33
	Denison Bros. Co., coal,	5.25
	Isaac C. Sherman & Son, supplies,	9.55
	C. H. Brownell & Sons, supplies for animals,	18.38
	Geo. E. Eggers, dynamite and exploders,	7.25
	General sewers, dynamite,	15.40
	Thos. M. Hart & Co., wire rope,	2.32
	Highways and streets, carting,	2.99
	“ “ moving stone and stumps,	75.00
	“ “ blacksmithing,	10.74
April 11.	Perry P. Jenney, filing and setting saw,	.50
	N. B. Gas & Edison Light Co., arc lights,	9.80
	Thomas M. Hart, repairing flag,	1.75
	Highways and streets, cleaning sidewalks,	4.26
	C. H. Brownell & Sons, supplies for animals,	18.16
	Denison Bros. Co., coal,	10.50
	Highways and streets, oil and lanterns,	1.42



April 11.	Highways and streets, carting,	3.33
	“ “ clearing snow from pond,	65.45
	“ “ kerosene, dressing,	48.33
	“ “ labor and carting,	32.25
	General sewers, dynamite, pipe, cement,	20.83
	E. C. Taber, supplies for animals,	19.50
	N. B. Gas & Edison Light Co., lights,	10.40
	Highways and streets, snow shovel,	.30
	“ “ clearing snow from walks,	12.97
	“ “ repairing and painting settees,	38.74
May 11.	P. Black, labor and stock on pole,	9.47
	C. H. Brownell & Sons, supplies for animals,	18.38
	F. L. Sowle & Co., supplies,	1.97
	Isaac C. Sherman & Son, apples and peanuts,	15.85
	Wood, Brightman & Co., supplies,	.93
	P. Black, labor and stock on flagstaff,	9.47
	DeWolf & Vincent, supplies,	4.37
	Perry P. Jenney & Son, copper wire,	.30
	C. G. & G. A. Randall, lumber and carting,	55.32
	N. B. Rubber Co., hose,	21.00
	N. B. Gas & Edison Light Co., lights,	10.00
	P. Black, labor and stock on flagpole,	9.48
	N. P. Hayes, screws and bolts,	2.30
	Thos. Hersom & Co., meal,	60.75
	F. T. Akin & Co., white lead, oil, paint pot,	4.65
	Mercury Publishing Co., reports,	12.27
June 11.	C. H. Brownell & Sons, supplies for animals,	14.25
	Highways and streets, labor on base ball diamond,	56.81
	“ “ labor, grading,	34.66
	“ “ oil, sharpening picks,	3.22
	F. L. Sowle, padlock,	1.00
	Highways and streets, building privy and vault,	43.34
	“ “ grading paths, etc.,	287.02
	“ “ labor, base ball ground,	27.80
	“ “ labor, laying drain,	3.75
	“ “ painting fences and buildings,	7.50
	“ “ painting signs,	1.00
	“ “ flagging,	.95
	Charles S. Paisler, lime,	.80
	E. C. Taber, supplies for animals,	18.87
	Highways and streets, clearing off dressing,	73.34
	“ “ painting and repairing settees,	32.10
	“ “ carting,	3.50
	DeWolf & Vincent, lawn mower, rake, shears, etc.,	25.25
	Highways and streets, blacksmithing, settees, etc.,	1.75

June 11.	S. C. Lowe, lawn mower, spade, waterpot,	6.10
	N. B. Cordage Co., manila line,	.40
	N. B. Gas & Edison Light Co., lights,	9.80
	Geo. D. Richards, broom,	.35
	Wilson & Wordell, seed,	4.20
	Williston H. Collins & Co., binding reports,	3.15
	Highways and streets, grading,	5.33
	“ “ building sea-wall,	177.77
July 11.	“ “ painting and repairing settees,	34.51
	N. B. Cordage Co., manila rope,	8.56
	C. H. Brownell & Sons, supplies for animals,	20.08
	Richard E. Nofftz, century plant,	2.50
	Wood, Brightman & Co., repairing teakettle, zinc,	.45
	F. T. Akin & Co., painting sign,	1.71
	Geo. E. Hatch, grate and fixture to stove,	1.25
	George D. Richards, kettle,	1.25
	Perry P. Jenney & Son, filing and cutting saw,	.45
	Wm. S. Brown, plants,	101.54
	Chas. E. Howland, cedar posts,	2.00
	C. G. & G. A. Randall, lumber,	11.43
	F. T. Akin & Co., painting sign,	1.72
	Hillman, Washburn & Co., supplies,	3.41
	DeWolf & Vincent, lawn mower, screws, bolts, etc.,	19.92
	Greene & Wood, lumber, carting,	71.78
	C. G. & G. A. Randall, lumber,	1.04
	F. T. Akin & Co., painting sign,	1.71
	Perry P. Jenney & Son, sharpening lawn mowers,	2.50
	DeWolf & Vincent, Imperial lawn mower,	13.00
	“ “ netting, tacks,	4.60
	Thos. M. Hart & Co., 1 American ensign,	16.50
Aug. 15.	F. T. Akin & Co., lettering signs,	14.95
	Blossom Bros., lumber for signs,	4.29
	Charles O. Brightman, signs,	11.80
	C. H. Brownell & Sons, supplies,	36.22
	N. P. Hayes, screws,	.12
	Highways and streets, blacksmithing for signs,	7.00
	Samuel Gratto, sharpening saw,	1.50
	F. L. Sowle & Co., sickle, lock, etc.,	1.90
	Isaac C. Sherman & Son, apples and peanuts,	22.55
	Wood, Brightman & Co., cylinder, labor on pump,	5.70
	F. T. Akin & Co., lettering signs,	14.95
	Blossom Bros., lumber for signs,	4.29
	Chas. O. Brightman, sign,	11.79
	DeWolf & Vincent, supplies,	5.65
	N. P. Hayes, screws,	.12

Aug. 15.	Highways and streets, blacksmithing for signs,	7.00
	E. C. Taber, supplies for animals,	29.87
	Perry P. Jenney & Son, sharpening lawn mower,	1.55
	Highways and streets, blacksmithing for signs,	7.00
	N. P. Hayes, screws,	.12
	Blossom Bros., lumber for signs,	4.29
	Charles O. Brightman, signs,	11.80
	F. T. Akin & Co., lettering signs,	14.90
	N. B. Gas & Edison Light Co., lights,	21.60
Sept. 15.	Wm. S. Brown, 200 coleus,	4.00
	New Bedford Rubber Co., hose,	15.00
	C. G. & G. A. Randall, lumber and carting,	5.64
	W. R. West, glass,	1.75
	C. E. Woodworth, clock,	30.00
	A. M. Bigelow, M. D. V., autopsy on deer,	4.00
	F. L. Sowle & Co., supplies,	1.65
	N. P. Sowle, ladder and carting,	2.53
	Geo. E. Hatch, supplies,	3.30
	C. H. Brownell & Sons, supplies for animals,	22.96
	Wood, Brightman & Co., repairing pump,	.25
	Perry P. Jenney & Son, sharpening and cleaning lawn mower,	3.00
	Geo. D. Richards, brooms,	2.10
	John McCullough, canvas,	2.28
	Wood, Brightman & Co., pump, pipe, platform, etc.,	20.60
Oct. 15.	E. Anthony & Sons, advertising,	2.70
	C. H. Brownell & Sons, supplies for animals,	31.34
	DeWolf & Vincent, nails and screws,	7.11
	Highways and streets, labor on signs,	12.29
	“ “ labor on deer-houses,	40.33
	Mercury Publishing Co., advertising,	4.00
	C. G. & G. A. Randall, lumber,	17.51
	“ “ lumber for deer-house,	62.80
	H. S. Hutchinson & Co., mounting plan,	1.00
	E. C. Taber, supplies for animals,	26.53
	Perry P. Jenney & Son, basket, rakes,	2.95
	Highways and streets, labor, dressing, carting,	133.53
	Thos. J. Gifford, repairing furnace,	38.68
	N. P. Hayes, rakes,	1.50
	Thos. Hersom & Co., bone meal,	15.00
	Highways and streets, labor and carting,	15.95
	N. B. Gas & Edison Light Co., lights,	22.00
	Wilson & Wordell, lawn grass,	16.80
	“ “	6.00
	Highways and streets, curbing, grading, concrete, etc.,	427.11

Oct. 15.	Highways and streets, labor on signs,	10.78
	“ “ labor on hitching-posts,	10.33
	A. W. Perkins & Co., zinc, nails,	3.90
Nov. 15.	F. T. Akin & Co., coal, paint,	14.50
	C. H. Brownell & Sons, supplies for animals,	32.57
	Geo. E. Hatch, galvanized chimney, etc.,	3.50
	F. L. Sowle & Co., hinges, eyes, axes, etc.,	2.23
	DeWolf & Vincent, tools,	23.45
	William Elliott & Sons, flower seed,	62.00
	N. B. Gas & Edison Light Co., lights,	10.80
Dec. 15.	P. Black, housing topmast of flagpole,	4.09
	C. H. Brownell & Sons, supplies for animals,	31.26
	DeWolf & Vincent, bill-hook,	4.25
	Denison Bros., coal,	11.50
	General sewers, dynamite, pipe,	40.78
	Highways and streets, screenings, sand, labor,	342.65
	Charles F. Manchester, cabbage,	9.07
	Highways and streets, blacksmithing,	1.20
	“ “ labor, carting, stock,	16.67
	“ “ dam,	21.85
	General sewers, pipe and cement,	27.00
	P. Black, housing topmast of flagstaff,	4.10
	Wm. S. Brown, plants,	30.81
	H. B. Remington, use of horse and cart,	56.55
	Mercury Publishing Co., placards,	1.25
	Old Colony Steamboat Co.,	.81
	N. Y., N. H. & H. R. R., freight on plants,	.55
	E. C. Taber, supplies for animals,	24.79
	C. G. & G. A. Randall, lumber and carting,	10.49
	F. T. Akin, coal,	6.26
	F. L. Sowle, netting, staples,	1.54
	N. B. Gas & Edison Light Co., lights,	9.60
	Highways and streets, dressing, carting, etc.,	49.97
	P. Black, housing topmast of flagstaff,	4.10
	Perry P. Jenney & Son, garden trowels,	.50
	Highways and streets, concrete, carting,	34.64
	“ “ blacksmithing,	3.15
Dec. 31.	C. H. Brownell & Sons, supplies for animals,	22.95
	Highways and streets, screenings, carting, blacksmithing,	41.87
	Geo. Achelis, plants,	2.25
	Hatch & Co., express on monkey,	1.00
	Highways and streets, blacksmithing, labor,	9.68
	“ “ dressing,	33.98
	“ “ moving ice and snow,	2.03

Dec. 31.	Highways and streets, blacksmithing and carting,	18.42
	“ “ making box, screenings,	4.67
	N. B. Gas & Edison Light Co., lights,	10.80
	Old Colony Steamboat Co., freight on urinal,	1.56
	Thomas M. Hart, repairing flag,	5.87
	F. L. Sowle, supplies,	1.60
	David Duff & Son, coal,	12.83
	E. C. Taber, supplies for animals,	12.92
	John Bertram, dirt,	14.50
		<hr/>
		\$4,497.96

IN BOARD OF ALDERMEN,

March 11th, 1897.

Received and ordered printed in the City Documents,  
and sent down for concurrence.

D. B. LEONARD,

City Clerk.

IN COMMON COUNCIL,

3d mo. 11th, 1897.

Concurred.

WM. A. MACKIE,

Clerk.











1897—CITY DOCUMENT No. 13.

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SECOND

ANNUAL REPORT

OF THE

CEMETERY BOARD,

FOR THE YEAR 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.



## Cemetery Board.

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WILLIAM SANDERS, *Chairman.*

JAMES DELANO.

CHARLES H. VINAL, *Secretary.*

CHARLES F. CORNELL, *Superintendent.*

PARDON A. MACOMBER, *Clerk.*

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### SEXTONS :

NELSON L. PIKE, Rural Cemetery.

HURLBERT E. THOMAS, Oak Grove Cemetery.

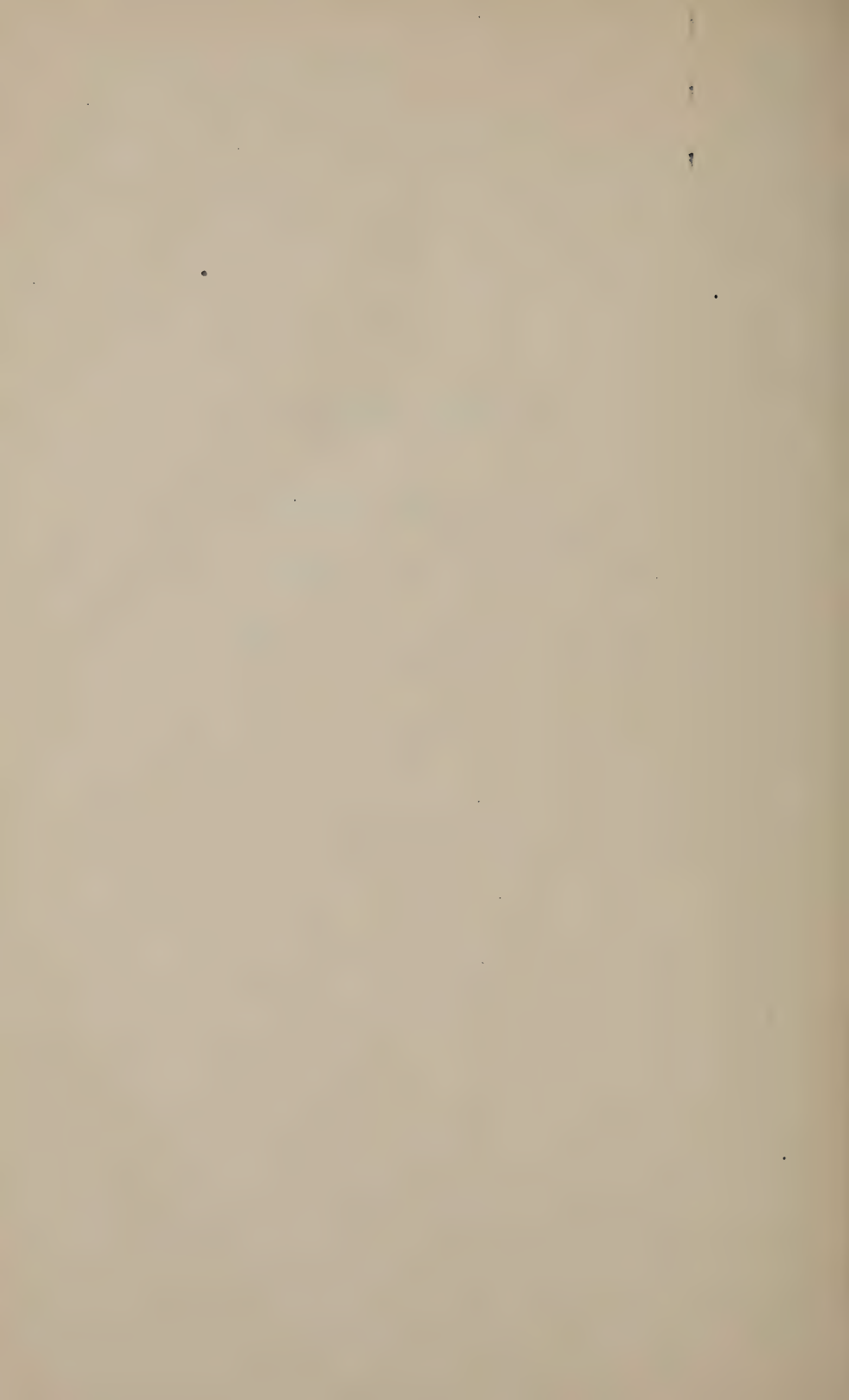
ANDREW J. SKIFF, Pine Grove Cemetery.

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### OFFICE :

Merchants Bank Building,

Room 304.





# REPORT.

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CITY OF NEW BEDFORD,  
OFFICE OF CEMETERY BOARD,  
New Bedford, Mass., Jan. 4, 1897.

*To the City Council of the City of New Bedford.*

GENTLEMEN :—Herewith we have the honor to submit the second annual report of the Cemetery Board for the year ending January 4, 1897.

## RECEIPTS AND EXPENDITURES.

### DR.

Balance, old account,	\$253.94
Annual appropriation, Feb. 17th, 1896,	12,500.00
Appropriation, special extension of water main in cemeteries,	2,000.00
Appropriation, special,	3,000.00
Receipts, labor on lots,	7,032.19
Transfer to balance,	209.33
	<hr/>
	\$24,995.46

### CR.

By transfer to unappropriated funds, (see City Auditor's report), balance old account,	\$253.94
Expenditure, general,	22,741.52
Extension water main 1,000 feet, Rural Cemetery,	1,000.00
Extension water main 1,000 feet, Oak Grove Cemetery,	1,000.00
	<hr/>
	\$24,995.46

## RECEIPTS AND EXPENDITURES. SALES OF LOTS.

### DR.

Balance, old account,	\$211.07
Receipts to Jan. 4, 1897,	5,050.00
	<hr/>
	\$5,261.07

## CR.

Expenditure, (improvement and embellishment),	\$4,798.56
Balance to new account, Jan. 4, 1897,	462.51
	<hr/>
	\$5,261.07

In January last an appropriation of \$18,633.74 was requested, which was based upon the actual expenditures from April 18th of the previous year. The Board was confident this amount would be ample to meet the requirements for a full year; and because of the limited appropriation granted, they were unable to commence new lines of work it had contemplated. The above shows, however, the intention of the Board to keep within the appropriation for the use of the department.

The City Council of 1896, acting upon the recommendation of the Board to purchase the Caswell Farm and attach the same to the Oak Grove Cemetery, granted a special appropriation of \$5,188.06 for this purpose, and it was formally placed at the disposal of the Board for cemetery purposes by the City Property Committee in December of 1896. With the proposed opening for sale of this new territory and other unused portions of the cemetery grounds, the accompanying grading and building of avenues, an unusual expense will have to be met with, and it is hoped that the amount estimated by the Board will be granted.

During the year there has been completed 1,275 feet of new avenue in the Rural, 465 feet in Oak Grove, and 100 feet in Pine Grove Cemetery; 320 feet of new face wall has been built in the Rural, and 225 feet of concrete walk laid in Oak Grove Cemetery.

## WATER EXTENSION.

The water mains have been extended in Oak Grove and Rural Cemeteries 1,000 feet each and 16 new hydrants located, a special appropriation having been made for this

purpose. This extension has, to a limited degree, contributed to the relief of many visitors to the cemeteries, who have long distances to travel to obtain water. The continual opening of new sections, and the rapid extension of avenues, require that similar extension of the water supply should be made annually, and the Board desire to present the necessity of such extension and the economy of the same, when new avenues are in process of construction.

### PLATTING.

It is fitting at this point to mention the valuable work in platting accomplished in the several cemeteries, under the direction of the City Engineer, W. F. Williams, during the year. 2,304 hours in the field and 1,798 hours of office work has been rendered by this department, at a cost for their services of \$697.89. This work is entered upon ledgers at the office of the Board, showing a complete diagram of each lot drawn to scale, and locating the position of graves, with an accompanying index detailing the interments therein. This alone is of great value to the Board as a means of reference, and of great assistance to the proprietors of lots in arranging for new interments.

3,115 graves in the *public* grounds have been located and marked, and plans of the same, with record of names as far as can be ascertained, and plans of the above are now on file at the office. Four new sections in Rural, seven in Oak Grove, and one in Pine Grove Cemetery have been prepared with the accompanying plan placed on file with the Board.

Levels have been taken and proper grades given for the new sections and avenues, and an entire survey of the Oak Grove Cemetery made, for the purpose of completing a large working plan of these grounds.

Early in the spring Engineer Williams submitted a

sketch of the unused part of Rural Cemetery, including the property purchased from the Morgan & Jenks estate, west of the Rural street entrance, with suggestions as to its proposed sub-division, so that the largest financial returns would be realized, and a uniform appearance of the cemetery preserved. Believing that the best results would be attained, it is the intention of the Board to lay out the remainder of the cemetery grounds (including the recent addition of the Caswell Farm to the Oak Grove Cemetery) on the "Lawn" system which is coming so much in use in cemeteries. This will result in a large saving in land, the avenues being so arranged as to require no paths to connect the same. This method of laying out the grounds will place many new lots at the command of the Board for the purpose of sale, including that not usually available for cemetery uses.

#### PUBLIC GROUNDS.

An entire reconstruction of the *public grounds* has been accomplished this year by the Board. The unsightly mounds have been leveled, the sections raised to grade, and numbered markers placed to more than 3,000 graves, with the record and plans placed on file at the office of the Board. These grounds have been thoroughly dressed and seeded, and will hereafter present a beautiful lawn appearance instead of a barren and apparently forgotten portion of the cemeteries.

A very large number of old lots and graves, many of which have been sadly neglected during the preceding years, have been cared for during the past season. A reviving interest on the part of proprietors and heirs to lots has developed, and a seeming desire to co-operate with the Board in its efforts to improve and beautify the grounds. Many who have had no apparent interest in the

appearance of family burial places have arranged with the Board for the annual care, and, in some instances, arrangements have been perfected for placing lots in perpetual care. Thus adding much to the appearance of the grounds and manifesting a commendable interest in the last resting place of those who have departed.

Much credit is due the Superintendent for this condition of affairs, as he has by personal effort and solicitation induced many proprietors to perform what would appear to be a duty which is too often forgotten.

Two improved sprinkling wagons have been purchased by the Board at an expense of \$175 each. By these equipments the avenues can be kept in a state of preservation for years, and the difficulty of having to frequently rebuild them because of the damages received during the summer months averted. They also enable the sextons to carry water to the remote portions of the ground, not yet reached by the limited extension of the water main.

### THE POND.

The pond, which has for a long period been but a stagnant pool, has been much improved by connecting the drainage with the Babbitt street sewer, and the outlet so adjusted as to hold the water to required depths. It is now a beautiful reservoir of water, abounding with thousands of gold fish, and the beautiful pink lilies planted within it by the former superintendent, E. S. Haskell, makes it one of the greatest attractions in Rural Cemetery.

### SHRUBS AND FLOWERS.

While the Board has been untiring in its efforts to administer to the actual requirements of the cemeteries, due attention has been paid to the embellishment of the grounds. A large and varied assortment of flowering shrubs and trees have been planted in the several grounds,



and these, together with a contract recently placed by the Board for additional shrubs to be planted this spring, will contribute to the general good appearance and improvement of the grounds. It has been the custom, also, in past years to annually fill the numerous beds with plants and flowers, and this year will be no exception. The contract will soon be placed for this purpose, and with the many individual decorations, the cemeteries will be desirable and attractive places to visit by all who have interests in them.

The Superintendent in his report to the Board presents statistics which show the amount and purpose of the labor employed, and from this report we present the following items for comparisons :

Number of lots prepared for sale in 1896,	{ Oak Grove,	165
	{ Rural,	119
	{ Pine Grove,	18
Number of lots sold in 1896,		134
Number of interments in 1896,	{ Oak Grove,	270
	{ Rural,	327
	{ Pine Grove,	9
Actual value of unsold lots,		\$18,750.00
Number of lots in perpetual care (total),		393
Amount expended in perpetual care lots,		\$1,324.24
Amount of funds for perpetual care lots,		\$33,549.93
Number of lots cared for in Rural Cemetery,		515
Increase over last year,		205
Number of lots cared for in Oak Grove Cemetery,		532
Increase over last year,		21

It is the earnest request of the Board that all proprietors will soon place the care of their lots under the direction of the Board. This can be done at much less expense by them, and will present a uniform appearance to the grounds, for it is impossible for outside parties to give the attention to them that is required and which the Board is able to do, having the proper facilities, and men constantly at work on the grounds.

### NEW RECEIVING TOMB.

The new receiving tomb in the Rural Cemetery has just been completed, and presents a sightly appearance in the park at the north of the pond. It has a capacity for more than one hundred bodies. The approaches to the same are to be concreted, and beds for flowers will soon be prepared about it. This furnishes to the Board abundant room for entombing, and relieves the necessity for overcrowding the old receiving tomb.

### ASSIGNMENTS OF LOTS TO THE CITY.

The assignment of lots to the City of New Bedford in trust, under the form adopted by the Board last, meets with popular favor, and proprietors who desire to have their lots forever cared for, and absolutely closed from additional interments or removals after their decease, are availing themselves of this method of assignment.

### GRIFFIN STREET CEMETERY.

These grounds being a closed cemetery, but little change can be made in its general appearance. The grass has been regularly cut during the year. The remaining headstones have been straightened, and all trespass by disinterested people forbidden. The Board has secured permission and anticipates removing the unoccupied and decaying tomb, and if possible to level the graves and seed the ground during the coming year.

### PINE GROVE CEMETERY.

This cemetery has received its proportionate attention, and under the careful supervision of the sexton it has been improved and extended. The unsightly hedges have been removed, and the old lots regraded and seeded. The underbrush in the wooded portion has been entirely removed, and additional flower beds will be added this



season. Personal interest on the part of the proprietors is constantly developing, and their appreciation of the efforts of the Board in this cemetery is evident by the many and constant visitors, when but three years ago it was apparently abandoned.

### THE OFFICE.

The office of the Board is in the Merchants Bank Building, room 304. It is the bureau of information to all the cemeteries; all the charts, plans, and valuable records of the same are stored in their safe, and in the custody of Mr. Pardon A. Macomber, clerk of the Board. Consultations and suggestions relative to the cemeteries will here receive courteous consideration, and no effort will be spared to render assistance and instruction to all persons desiring the same. We sincerely trust that all will avail themselves of the convenience of this *central* office, especially in time of bereavement, and those inexperienced, seeking advice.

The superintendent and sextons report to this office daily, and are easily accessible for consultation and instruction.

The Board has enjoyed many expressions of appreciation on the part of the public, of the work accomplished in the cemeteries.

In presenting its second annual report, the Board desires to convey to the public that its efforts to improve and embellish the grounds, and to administer to the interest of all, show evidence of progress and success, and respectfully invite the public to visit the grounds that they inspect the result of the work detailed in this report.

Respectfully submitted,

WILLIAM SANDERS,  
JAMES DELANO,  
CHARLES H. VINAL.

IN BOARD OF ALDERMEN,  
January 28, 1897.

Received, ordered printed in the City Documents, and  
sent down for concurrence.

D. B. LEONARD,  
City Clerk.

IN COMMON COUNCIL,  
1 mo. 28th, 1897.

Concurred.

WM. A. MACKIE,  
Clerk.







1896—CITY DOCUMENT No. 16.

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# ANNUAL REPORT

OF THE

INSPECTOR

OF

MILK, PROVISIONS AND ANIMALS,

FOR THE

YEAR ENDING DEC. 31, 1896.

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NEW BEDFORD:

E. ANTHONY & SONS, Incorp., CITY PRINTERS.

1897.





# REPORT.

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NEW BEDFORD, MASS.,  
December 31, 1896.

*To His Honor the Mayor, and the Board of Aldermen  
of the City of New Bedford.*

GENTLEMEN :—The report of this office is herewith respectfully submitted.

The main question occupying the attention of this office is the procuring for the citizens of New Bedford pure, wholesome milk. There is no person who realizes the value and great importance of pure milk, both as regards its food value and as a protection against disease, than the Inspector. I have made it a duty to procure this end by whatever methods, provided they be honest and legitimate, that in my own experience and that of others who know the value of what they suggest, seem under the circumstances the most promising. The office was not created, as many over-zealous individuals seem to teach, for the mere and exclusive purpose of issuing complaints, but more particularly, if not entirely, for the purpose of securing for the masses pure and unadulterated milk, and my actions have been governed by this motive.

The office is opened during business hours every day, and is visited by the public in all matters relating to the question of milk, provisions and animals ; such as bringing samples of milk and provisions for investigation, and making complaints on various matters.

As I never visit dwellings, the only information I have of the character of the family supply is from this source and investigation.

No person need be in doubt about the purity of their milk, when a visit to the office provided by law for the use of the public will give all needed information and assistance.

### OPERATIONS OF THE YEAR 1896.

Granted 270 licenses, at 50 cents, \$135; which is paid into the city treasury.

Have inspected over 400 samples of milk.

The complaints in regard to milk and provisions have been less than any previous year. I have investigated all such complaints made, to the perfect satisfaction of the parties making them and wholesome advice to the sellers.

I have made a thorough inspection of all cattle and swine owned within the city limits, and also of the barns and premises wherever cattle are kept, especially as to the water supply and the distance from any source of contamination, &c., &c., and have found, with four exceptions, very little to complain of and much to commend. I have reported all places where nuisances existed to the Hon. Board of Health, who are investigating and will remedy the same.

I have also caused to be killed and buried, *five tuberculous cows* and *five glandered horses*, and in every case have performed post mortem examinations and confirmed my diagnosis.

I have also attended the slaughter of all animals butchered within the city limits, and have quarantined all sick and debilitated animals coming under my notice during the year. My duty is to quarantine, test, kill and bury all tuberculous cattle, and I shall strictly attend to this

duty to the full extent of my authority, thus giving to the inhabitants of New Bedford as little danger as is possible of contracting (from either meat or milk) this dreaded and fatal disease.

Respectfully submitted,

DR. D. C. ASHLEY,

Inspector of Milk, Provisions and Animals.

IN BOARD OF ALDERMEN,  
January 7, 1897.

Received, ordered printed in the City Documents, and  
sent down for concurrence.

D. B. LEONARD,  
City Clerk.

IN COMMON COUNCIL,  
1 mo. 7th, 1897.

Concurred.

WM. A. MACKIE,  
Clerk.





# LIST OF JURORS.

CITY OF NEW BEDFORD.

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CLERK'S OFFICE,

December 30, 1896.

This certifies the following to be a correct list of persons prepared as provided by law to serve as Jurors for the year 1897.

Attest:

DANIEL B. LEONARD,

City Clerk.





## LIST OF JURORS.

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### A

Adams, Charles H. 597 County, no occupation  
Adams, Stephen F. 118 Mill, dry goods  
Ainsworth, Joshua. 179 Austin, laborer  
Allen, Abraham A. 2d, 233 Shawmut av, farmer  
Allen, Charles, 21 Bonney, stonecutter  
Allen, Charles N. 81 School, sparmaker  
Allen, Daniel E. 76 Shawmut av, butcher  
Allen, George H. H. 34 So. Sixth, clerk  
Allen, Henry C. Hathaway road, farmer  
Allen, James H. 38 Durfee, wheelwright  
Allen, Peleg H. S. W. 33 Madison, machinist  
Allen, Thomas F. 187 Pleasant, druggist  
Almy, Edgar M. 211 Acushnet av, clerk  
Almy, Henry B. 96 Willis, upholsterer  
Andress, Benjamin A. 408 Kempton, clerk  
Anthony, Benjamin, 98 Madison, publisher Standard  
Anthony, Benjamin H. Ash, s. of Hawthorn, clerk  
Arey, Allen C. 159 Washington, gas fitter  
Arnett, Thomas, 5 Willis, teamster  
Arnott, George, 12 Margin, spinner  
Ashley, A. Davis, 947 Acushnet av, pat. med. dealer  
Ashley, Joshua B. Jr. 33 North, marketman  
Ashley, Roland R. 109 Cove, real estate dealer  
Ashley, Simeon P. n. s. Mill, e. of Hunter, carpenter  
Atwood, William W. 244 Pleasant, shoemaker

### B

Bailey, George P. 364 Kempton, druggist  
Baker, Ansel G. 177 Fourth, machinist

Baker, Benjamin, 111 Summer, bookkeeper  
Baker, Michael A. 82 Chestnut, master mariner  
Baker, William A. 159 Hillman, janitor  
Bamford, James H. 90 Merrimac, shoemaker  
Bamford, William, 90 Merrimac, shoemaker  
Bancroft, Julius V. 194 Pleasant, street sprinkler  
Bannister, John W. 194 Pleasant, clerk  
Bannon, John H. 1 Hyacinth, plumber  
Bannon, William F. 1 Hyacinth, clerk  
Barrows, Eugene M. 662 County, paint manufacturer  
Bartlett, Bourne S. 22 So. Sixth, merchant  
Bartlett, Clarence H. 450 County, clerk  
Barry, Richard, Jr. 285 Cedar, clerk  
Bassett, Andrew H. w. s. Tobey road, butcher  
Bassett, Charles H. w. s. Tobey road, butcher  
Bassett, Ellery R. 166 Mill, electrician  
Bassett, William A. 15 Chestnut, fish dealer  
Batchelder, Ward C. 31 Dartmouth, machinist  
Bates, James W. 281 Cottage, grocer  
Bates, Lot B. 425 Acushnet av, grocer  
Baylies, Charles S. 122 Bedford, Clerk  
Bearse, Clarence A. 7 Franklin, carpenter  
Beetle, John H. East French av, lumber surveyor  
Bennett, George W. n. side Howard av, blacksmith  
Bennett, Samuel R. 79 Chestnut, merchant  
Bennett, William H. 2 Richmond, grocer  
Bentley, George B. 24 Mosher, top roll coverer  
Bentley, Loren T. 40 Bowditch, second hand.  
Bisbee, George H. 120 Fourth, music teacher  
Blake, George A. 183 Kempton, clerk  
Bliss, Frank C. 196 Grinnell, grocer  
Bly, Ezra K. Manhattan House, clerk  
Bly, William L. 304 County, clothing  
Boomer, Edwin A. 63 Hillman, millinery  
Booth, Edward H. 35 Durfee, car inspector

Booth, Francis A. 35 Fifth, accountant  
Booth, Zachariah E. 57 Cottage, bookkeeper  
Borden, Charles F. 112 Fifth, supt. Mt. Wash. glass wks.  
Borden, George B. Rockdale av, farmer  
Borden, Gilbert B. e. s. Acushnet av, master mariner  
Borden, Harrison T. 10 Fair, wood and coal  
Borden, Prince S. 220 Kempton, master mariner  
Borden, Thomas J. 17 Grape, machinist  
Bosworth, Peleg, 195 Shawmnt av, farmer  
Bouchard, John, 121 Locust, barber  
Bourne, Henry D. 49 Sycamore, carpenter  
Bowen, George S. 82 School, painter  
Bowman, George L. 19 Shawmut av, nurse  
Bowman, Henry T. 632 Purchase, carpenter  
Bradford, Edgar V., 286 Park, overseer Cordage works  
Bradley, William E. 109 Grinnell, foreman livery stable  
Brawley, Edward L. 68 Walden, clerk  
Brayton, George H. 59 Allen, grain dealer  
Briggs, Allen G. w. s. Tobey road, clerk  
Briggs, Charles F. 172 Fourth, teamster  
Brightman, Edward T. 68 Foster, butcher  
Brightman, Frederick R. 65 So. Sixth, clothier  
Brightman, George F. Acushnet av, master mariner  
Brightman, Harry C. Rockdale av, clerk  
Brightman, Harry S. 101 Allen, polisher  
Brightman, Leander, 29 Madison, merchant  
Broadmeadow, George, 101 Durfee, machinist  
Brock, George P. 50 Russell, frame maker  
Bromley, David, 945 So. Water, grocer  
Brooks, John B. 187 North, engineer  
Brown, Charles H. 25 Willow, clerk  
Brown, Herbert A. 99 Willis, carpenter  
Brown, James, 197 Coffin av, farmer  
Brown, James H. 212 North, machinist  
Brown, William L. G. 114 Sycamore, florist

Brownell, Charles H. Kempton & Florence, marketman  
Brownell, Charles T. 153 Mt. Pleasant, farmer  
Brownell, Elnathan C. 354 County, marketman  
Brownell, Gilbert K. 70 North, shoe dealer  
Brownell, George A. 103 No. Ash, carpenter  
Brownell, Myron W. 73 State, paint manufacturer  
Buchell, Charles N. 236 Maxfield, shoe dealer  
Bunker, Elihu, 401 Purchase, druggist  
Burbank, John T. 68 Parker, bookkeeper  
Burgess, Charles T. 74 Willis, shoecutter  
Burgess, George W. 18 Bedford, machinist  
Burgess, Thomas, 827 County, grocer  
Bush, Andrew M. 383 Purchase, tailor  
Butler, Harry W. 51 Locust, reporter  
Butler, William F. 613 County, boatbuilder

## C

Caldwell, Albert F. 101 No. Ash, carpenter  
Cannon, Albert, 34 Willis, clerk  
Card, Herbert E. Cove road, overseer  
Carney, John F. cor. Rivet and Water, clerk  
Carpenter, Albert H. W. 373 Cottage, insurance agent  
Carroll, William E. 580 Kempton; carriage maker  
Carter, Edward H. 275 Pope, carpenter  
Carter, Robert H. 722 Kempton, druggist  
Case, Isaac R. 625 County, clerk  
Casey, Edward H. Hathaway road, farmer  
Cavanaugh, Jeremiah L. 72 So. Second, blacksmith  
Chadwick, Edward E. 140 Summer, meat and provisions  
Chadwick, Joseph W. Oak, foreman Twist Drill  
Champion, John T. 499 Purchase, tailor  
Channing, William R. 53 Fifth, dentist  
Chase, Charles F. Howard av, carpenter  
Chase, Ira M. 37 Fifth, bookkeeper  
Chase, Joseph H. 319 Park, ship carpenter

Chase, Walter F. 17 Fifth, ship carpenter  
Chase, Warren E. 90 Bedford, editor  
Chase, William F. 318 Mt. Pleasant, farmer  
Chausse, Joseph, 126 Mt. Pleasant, grocer  
Clark, Charles F. 119 Kempton, pattern maker  
Clark, Joseph P. H. cont. No. Chancery, wood carver  
Cleveland, George H. V. D. 69 Forest, baker  
Clifton, Jireh W. 242 Purchase, plumber  
Clynes, Thomas J. 634 Acushnet av, clerk  
Cobb, George A. Acushnet av, tinman  
Coddington, Seth E. 8 Spruce, bottler  
Coe, Isaac H. Jr. 124 Washington, carpenter  
Coit, Manuel, 5 Warwick, clerk  
Colby, Philip E. 37 Hill, clerk  
Cole, George F. 112 Fourth, carriage dealer  
Cole, Theodore W. 74 Hillman, marble worker  
Cole, William, Jr. 76 So. Sixth, treas. Co-op. Association  
Collins, George A. 178 Fourth, overseer  
Cook, Charles E. 1042 Acushnet av, real estate agent  
Cook, Samuel H. 97 Madison, insurance agent  
Cook, Thomas W. 396 Union, cotton broker  
Cooke, Robert, 266 Fourth, baker  
Cooper, William E. 551 Kempton, grocer  
Corey, David A. 207 Kempton, machinist  
Cornell, Charles C. e. side Jenny Lind, marketman  
Cornell, John W. 151 Middle, broker  
Corson, Henry T. 43 Fifth, clerk  
Cory, Andrew T. Rockdale av, farmer  
Cory, George A. 138 State, carpenter  
Cory, Isaac C. Rockdale av, carriage maker  
Coxen, Charles H. 109 Durfee, grocer  
Cranston, Orville W. 51 So. Emerson, upholsterer  
Croacher, Thomas W. 121 Fifth, sash and blind maker  
Crowley, Timothy, 11 Cedar, machinist  
Cummings, Benjamin, 99 School, grocer

Cummings, Benjamin T. 271 County, clerk  
Cunningham, Patrick, 131 So. Second, machinist  
Curtis, Leonard O. 5 Newton, music teacher  
Cushing, Charles F. 197 Middle, merchant

## D

Dagasse; Anatole, 66 Robeson, druggist  
Dahill, Edward F. 90 Merrimac, shoe dealer  
Dammon, Silas D. 137 Smith, ship carpenter  
Damon, Louzon A. 126 Fourth  
Dantsizen, Frank M. 223 Acushnet av, cabinet maker  
Darling, Frank M. 490 Acushnet av, clerk  
Darling, William, e. s. Tobey road, farmer  
Davenport, Dudley, 254 Arnold, grocer  
Davis, Charles E. 17 Chestnut, machinist  
Davis, Edward G. 195 Shawmut av, florist  
Davis, Henry V. Jr. 262 Arnold, foreman  
Davis, Herbert E. 135 Locust, motorneer  
Davis, John E. w. s. Rockdale av, florist  
Dawe, Fred C. 159 Durfee, machinist  
Dean, A. Herbert, 217 Middle, clerk  
Dean, Charles F. 59 Elm, painter  
Dehn, George R. 5 Linden, baker  
Denham, James R. 2d, 242 Acushnet av, clerk  
Dennis, Ephraim K. 193 Middle, contractor  
Devlin, John, Acorn s. of Durfee, spinner  
DeWolf, Alfred W. 56 Hill, hardware dealer  
Dexter, Howard N. 56 Campbell, shoemaker  
Dias, Charles H. 321 Union, clerk  
Diman, Henry B. 123 Rockland, merchant  
Doane, Joshua G. 487 Acushnet av, foreman  
Donaghy, Thomas, Jr. 103 Acushnet av, clerk  
Douglass, Frank M. 18 Cedar, druggist  
Drake, Albert B. 91 School, civil engineer,  
Driscoll, Daniel F. 11 Linden, grocer



## LIST OF JURORS.

9

Driscoll, Patrick, 212 Middle, salesman  
Dunbar, William A. 41 Campbell, shoemaker  
Dugan, Edward P. 130 So. Second, grocer  
Dwight, James E. 137 Fourth, grocer

### E

Eaton, Josiah, Jr. 65 Cottage, music teacher  
Eddy, George M. 8 Maple, retired  
Eggers, George A. 72 So. Chancery, gunsmith  
Ellison, Henry W. 56 So. Emerson, clerk  
Emery, John C. 57 Bedford, Twist Drill  
Ennis, Charles T. 114 Fourth, clerk  
Ennis, John H. 17 Maitland, painter  
Estes, Andrew L. 115 Campbell, carpenter

### F

Fairchild, Thomas H. 173 Fourth, druggist  
Farnham, George W. 54 Hillman, boatbuilder  
Faunce, Charles L. 9 Homer, carpenter  
Fisher, Sidney S. 442 Pleasant, motorman  
Foley, William F. 147 State, weaver  
Folger, Charles E. 61 Hillman, bookkeeper  
Folger, Charles F. 61 Hillman, retired  
Folger, David B. 44 North, grocer  
Freeman, George H. 23 Seventh, ink manufacturer  
Fury, Bartholomew P. 501 Purchase, salesman

### G

Galligher, Neil, 107 So. Sixth, tailor  
Gammons, Edgar H. 22 Grand, teamster  
Gardiner, Ezekiel C. 14 Crapo, stable keeper  
Gardner, Oliver H. 97 Chestnut, carpenter  
Gay, Elmer B. 54 Chestnut, foreman  
Gibbs, John L. 2d, 72 State, supervisor of buildings  
Gibson, Samuel S. west side Tobey road, mason

Gifford, C. Henry, 26 Walnut, mason  
Gifford, Jireh B. Howard and Belleville avs, farmer  
Gifford, Richmond A. 101 Cedar, foreman Water Works  
Gifford, Thomas J. 15 Ashland, plumber  
Goff, Charles H. 11 Emerson, carpenter  
Gooding, Robert A. 177 Cedar, carpenter  
Greene, Matthew L. 191 No. Second, machinist  
Greene, Nathaniel H. 204 County, foreman Public Works  
Grundy, James, 230 So. Second, glassmaker  
Gurney, Frank J. e. s. Tobey road, shoemaker  
Gurney, William A. w. side Acushnet av, grain dealer

## H

Hafford, Stephen, Jr. 73 State, shoecutter  
Hammond, Edgar B. 66 North, architect  
Hammond, Francis W. 70 North, carpenter  
Hammond, John N. Tobey road, w. side, carpenter  
Harding, James G. 62 State, pump and plumber  
Harlow, Michael F. 430 Pleasant, loomfixer  
Harrington, John C. rear 68 Linden, conductor  
Harris, Charles W. 341 W. Maxfield, conductor St. Ry.  
Harrison, Samuel, 83 County, shoe dealer  
Haskins, Elmore P. 95 Chestnut, carpenter  
Haskins, Herbert K. 87 Chestnut, carpenter  
Hatch, George C. 1213 Acushnet av, expressman  
Hatch, Joshua J. 500 Cottage, carpenter  
Hathaway, Andrew B. Hathaway road, florist  
Hathaway, Benjamin F. Jr. 12 Pope, clerk  
Hathaway, Charles R. 18 Campbell, bookkeeper  
Hathaway, Henry W. Hathaway road, farmer  
Hathaway, James H. Tarkiln Hill road, butcher  
Hathaway, James L. 72 Willis, bookkeeper  
Hathaway, Jethro H. 498 Cottage, carpenter  
Hathaway, John W. Hathaway road, farmer  
Hathaway, Paul S. Hathaway road, farmer  
Hathaway, William E. 411 Cedar, hay and grain dealer

Haven, George H. 324 Cottage, confectioner  
Hayden, John D. 181 Smith, farmer  
Hazzard, James B. 59 Hill, painter  
Healey, Peter J. 444 Pleasant, laborer  
Healey, Thomas F. n. s. Belleville road, real estate agent  
Herlihy, Patrick, 928 Acushnet av, stonecutter  
Hervey, E. Williams, 191 Hawthorn, retired  
Higham, Hiram, Jr. 110 Merrimac, overseer  
Hillman, Benjamin, 101 Maxfield, painter  
Hillman, Frederick G. 1036 Acushnet av, clerk  
Hillman, George W. 1036 Acushnet av, mill supplies  
Hindle, William, 322 Pleasant, grocer  
Hitch, Hardy, Jr. 20 Fifth, upholsterer  
Hitch, Otis L. 429 Union, upholsterer  
Holcomb, Roland, 67 School, grocer  
Holloway, Arod B. 83 Locust, mason  
Homer, Frederick A. 4 Arch, merchant  
Homer, George S. 4 Arch, merchant  
Howe, George A. 53 Dartmouth, solderer  
Howland, Daniel W. 305 W. Maxfield, tailor  
Howland, Ezra, 284 Union, farmer  
Howland, George F. 297 County, no occupation  
Howland, Henry, 280 Pleasant, stove dealer  
Howland, Jonathan, Jr. 54 Russell, retired  
Howland, Paul, Jr. 91 State, engraver  
Howland, William D. Middle Point road, mill treasurer  
Hoxie, Frank C. 155 Washington, pattern maker  
Hubbard, Herbert F. 236 Pleasant, foreman  
Humphrey, Daniel F. Ashland, conductor electric road  
Hunt, Samuel C. 147 Maxfield, architect

## J

Jackson, George, 433 Acushnet av, mason  
Jackson, Thomas W. 591 W. Maxfield, barber  
James, Clarence H. 21 Arch, accountant

Janell, Henry F. 596 Purchase, stonecutter  
Jenney, Benjamin F. 43 Arch, no occupation  
Jenney, Harry C. Smith and Walden, superintendent  
Jenney, Henry P. w. s. Acushnet av, real estate agent  
Jenney, Perry P. 142 Pleasant, machinist  
Jenney, William B. 174 Grinnell, mason  
Jennings, Frank M. Jennings court, machinist  
Jenuison, Charles J. 17 Franklin, pattern maker

## K

Kane, James E. 127 Grinnell, bookbinder  
Keen, Charles F. 301 Cedar, carpenter  
Keen, Leonard, Jr. 39 Parker, carpenter  
Kelleher, Daniel, 56 Parker, bomb lance manufacturer  
Kelley, William E. 158 Grinnell, bookkeeper  
Kelley, William L. 478 County, jeweler  
Kent, Levi F. 410 Cedar, machinist  
Kenyon, Henry W. 910 Acushnet av, no occupation  
Kilburn, Frank J. 264 County, machinist  
King, Benjamin F. 62 Durfee, conductor electric road  
King, Burgess T. w. s. Elm near Reed, carriage maker  
King, Henry L. 47 Locust, superintendent  
King, Philip R. 95 Willis, carriage maker  
Kingman, Gilbert D. 12 Lincoln, clerk  
Kirby, Charles L. 411 Union, no occupation  
Kirby, George, Jr. 672 County, paint manufacturer  
Kirk, John F. 143 State, grain business  
Knight, Charles W. 48 North, printer  
Knowles, Joseph C. 81 Walden, retired  
Knowles, Thomas P. 213 State, plumber

## L

Lagasse, Adolph P. 128 Rivet, undertaker  
Lamb, William G. 406 Union, carpenter  
Lanagan, Daniel P. 12 Walnut, junk dealer

Lapham, Joshua G. 183 Pleasant, master mariner  
Law, George P. W. Maxfield, laundryman  
Lawrence, Charles E. 115 Fourth, painter  
Lawrence, Cyrus T. 329 Cedar, retired  
Lawrence, James A. w. s. Tobey road, farmer  
Lawrence, James W. 630 County, furniture dealer  
Leach, Harry J. 163 Maxfield, carpenter  
Leach, William H. H. 75 Sycamore, trav. salesman  
Leary, Dennis, Jr. 278 Austin, blacksmith  
Lees, Albert, 168 Middle, motor inspector  
Lees, Sidney, Blackmer and Second, clerk  
Lewis, Edgar R. 717 County, clerk  
Lewis, Joseph S. Jr. 78 Thomas, machinist  
Lewis, Obed B. 139 Hillman, marketman  
Lord, James Edwards, oiler  
Lowther, George H. 179 Mill, clerk  
Lucas, Everett A. n. s. Hathaway av, carpenter  
Luce, Arthur G. 53 Hillman, manager Mercury Pub. Co.  
Luce, Thomas E. 201 Cedar, grocer  
Luscomb, Simeon P. 184 Summer, cooper  
Lyons, Thomas H. 991 Purchase, driver

## M

Macomber, George P. 774 County, copper works  
Macomber, James P. 245 Pleasant, merchant  
Macomber, John W. 265 Union, manager Cordage Co.  
Macomber, Pardon A. 201 Kempton, agent  
Macomber, William B. 74 State, retired  
Macy, Arthur W. 161 Grinnell, jeweler  
Macy, Frank E. 74 Chancery, no occupation  
Maine, Henry M. 36 North, carpet cleaner  
Maker, George W. 96 Maxfield, sailmaker  
Manchester, Ellery L. 11 Emerson, rigger  
Manseau, John D. 30 Durfee, clerk  
Marden, George W. 288 Acushnet av, artotype printer

Martin, Edward H. 32 North, reporter  
Mason, John L. G. 63 Hillman, mason  
Maxfield, Frederick T. 191 Kempton, painter  
McAfee, John K. 63 Fifth, fruit dealer  
McAuliffe, Dennis J. 276 Coggeshall, janitor  
McCann, James L. 16 High, stonecutter  
McCullough, John, Jr. 55 Maxfield, bookkeeper  
McDonald, Hugh J. 195 So. Second, carriagesmith  
McFarlin, James, 71 Spruce, jobber  
Meaney, Thomas J. 6 W. French av, real estate agent  
Merritt, George H. Plainville road, farmer  
Milliken, George H. 113 Hillman, dry goods  
Milliken, George H. Jr. 21 Sycamore, clerk  
Milliken, Lewis E. 73 Hillman, grocer  
Mills, William J. 831 County, no occupation  
Mitchell, Robert, 382 County, gardener  
Moon, John, 35 Acushnet av, second-hand furniture  
Morrison, John H. 402 Union, letter-carrier  
Morse, Leonard H. Sr. 469 Acushnet av, carpenter  
Morse, Willard H. 271 Pleasant, dry goods  
Mosher, Charles A. 202 Rockland, carpenter  
Mosher, Charles H. Rockdale av, ice dealer  
Mosher, Frederick W. 219 Fourth, carriage maker  
Moulton, Augustus G. 56 Hill, bookkeeper  
Mullaney, Michael, 69 South, overseer  
Murphy, Dennis E. 186 Division, spinner  
Murphy, Edward M. 834 County, clerk  
Murphy, Timothy J. 180 So. Second, glassblower  
Myrick, Walter R. 13 Eighth, machinist

## N

Neal, George A. 380 Union, clerk  
Nichols, George M. River, butcher  
Nichols, Leander P. 49 North, shoe dealer  
Nye, Clark D. 87 School, painter



Nye, George E. 195 Acushnet av, machinist  
Nye, Obed C. 276 Union, merchant  
Nye, Pemberton H. 709 County, merchant

## O

O'Brien, John N. 567 Cottage, wood and coal  
O'Connor, Frank, 299 County, tailor  
Oesting, F. William, 51 Fifth, trader  
Otley, John R. 219 Hillman, barber  
Onley, Fred H. 147 Smith, clothes cleaner  
Otheman, John, 315 Pleasant, hardware

## P

Paddock, William C. 445 Cottage, nurse  
Paige, James H. Mill road, grocer  
Paine, George W. 137 Summer, lime, brick, etc.  
Paine, Olin S. 87 State, clerk  
Palmer, Ephraim C. 782 Kempton, stair builder  
Parker, Avery O. Tarkiln Hill road, carpenter  
Parker, Frederick, 289 Acushnet av, dealer in powder  
Parker, James N. 91 School, salesman  
Parsons, Thomas L. 131 Elm, broker  
Pasell, Francis H. 257 Mt. Pleasant, florist  
Pasell, Francis H. Jr. 257 Mt. Pleasant, gardener  
Patnaude, Joseph C. 7 Linden, salesman  
Paul, John W. 29 Parker, insurance agent  
Paulding, John B. rear 176 Grinnell, shoemaker  
Peck, Walter B. Clark's Point, pharmacist  
Peckham, Frank H. 85 So. Second, teamster  
Peckham, Israel H. Tarkiln Hill road, blacksmith  
Peirce, David B. 161 Maxfield, painter  
Penney, B. Frank, 2 Spruce, printer  
Penney, Edward F. 266 County, plumber  
Perkins, Andrew W. 141 Cedar, roofing and concrete  
Perry, Samuel H. 111 Hillman, hat dealer



Peterson, Zephaniah W. 434 Cottage, carpenter  
Phinney, Nathan D. 221 Pleasant, gents' furnishings  
Phinney, Otis B. 84 Elm, clerk  
Pierce, Erskine H. 52 Fifth, mill supplies  
Pierce, Lloyd D. 122 Acushnet av, accountant  
Piper, Augustus D. 153 Elm, city messenger  
Pool, Arthur T. Plainville road, teamster  
Pope, Frank L. 81 School, passepartout maker  
Potter, Edwin L. 60 Dartmouth, grocer  
Potter, George A. Hathaway road, farmer  
Potter, Stephen R. 479 County, clerk  
Potter, Sylvanus B. 185 Purchase, master mariner  
Price, Charles R. 15 Eighth, treas. N. B. Gas & Edison  
Electric Light Co.  
Proulx, Joseph, 26 Reynolds, druggist

## R

Randall, Charles G. 76 So. Sixth, lumber dealer  
Randall, George A. 205 Fourth, lumber dealer  
Raymond, Calvin, Jr. 104 Smith, expressman  
Raymond, Josiah K. 65 Chestnut, retired  
Redpath, William J. 183 County, clerk  
Reed, Gustavus L. 230 Union, watchman  
Reed, Leander, 3 Bay, machinist  
Remington, Emerald A. 19 Ashland, painter  
Remington, Frank L. 73 Linden, plumber  
Remington, John G. 73 Linden, carpenter  
Reynolds, Alonzo F. 50 Durfee, car inspector  
Reynolds, Edward G. 210 Pleasant, livery stable  
Rexford, George P. 68 School, machinist  
Rice, Adoniram J. 58 Washington, baker  
Richards, George D. 61 Fifth, house furnishings  
Richards, William D. 61 Fifth, stable keeper  
Richardson, John T. 93 Fourth, medicines  
Ricketson, Levi, 116 Acushnet avenue, mariner

Ricketson, Orion, 146 State, plumber  
Riley, Peter J. 109 Austin, boots and shoes  
Robbins, William S. 626 County, carpenter  
Ruggles, John A. Jr. 145 Summer, salesman  
Russell, Allen, Jr. w. s. Tobey road, musician  
Russell, James A. 37 Parker, grocer  
Russell, James B. 90 Elm, book agent  
Russell, John A. w. side Tobey road, farmer  
Russell, Pardon, Jr. n. s. Hathaway road, ice dealer  
Ryan, Edward T. 958 County, druggist

## S

Sadler, George H. 734 Kempton, carriage trimmer  
Sampson, Seth J. 104 State, clerk  
Sanders, Henry V. 208 Pleasant, clothing dealer  
Sanford, Isaac T. 168 Fourth, foreman  
Sawtelle, Frank C. 315 Pleasant, crockery dealer  
Saxon, George E. 628 Purchase, operative  
Sayer, William L. 76 So. Sixth, editor  
Schuler, Jacques, 206 Pleasant, shoe dealer  
Schwall, James B. 13 Bonney, clerk  
Searell, Charles T. 59 Kempton, carpenter  
Searles, Mortimer, 190 Acushnet avenue, rubber stamps  
Serpa, Charles A. 48 So. Sixth, clerk  
Shaw, Charles F. 395 Purchase, treas. Street Railway Co.  
Shaw, Elmer H. 71 Fourth, variety store  
Shaw, Stephen E. 94 State, bookkeeper  
Shea, Cornelius J. 2 Cornell place, driver  
Sherman, James H. 10 Eighth, plumber  
Sherman, James L. 43 Mill, lumber dealer  
Sherman, John D. w. side Vine, collector  
Shurtleff, Israel H. 252 County, druggist  
Shurtleff, John R. 31 Lincoln, sailmaker  
Sisson, Joseph S. 191 Washington, grocer  
Slade, Caleb, 950 Acushnet av, grocer

Slocum, Francis R. 5 Maple, furniture dealer  
Small, Lewis C. 91 School, grocer  
Smith, Abbott P. 8 Lincoln, real estate  
Smith, Emerson, 93 Linden, carpenter  
Smith, George, 79 Washington, mill overseer  
Smith, Henry W. 27 Seventh, photographer  
Smith, Hoyland, 229 Acushnet av, bicycle dealer  
Smith, James, 91 County, spinner  
Smith, John, 276 Coggeshall, weaver  
Smith, Shubael D. Jr. 81 Mill, clerk  
Smith, William E. 9 Arch, dye house  
Southwick, Arnold W. 3 Court, moulder  
Sowle, Forrest B. 629 County, bookkeeper  
Sowle, Frederick A. 11 Florence, manufacturer  
Sowle, Frederick L. 26 Sycamore, hardware  
Spooner, Albert F. e. s. Tobey road, carpenter  
Spooner, Arthur C. 28 Spring, engraver  
Spooner, John A. 2d, e. s. Tobey road, carpenter  
Spooner, Roswell, e. side Tobey road, farmer  
Spooner, William E. 179 Fourth, Nut & Lock Co.  
Stanley, Ned A. 80 State, dentist  
Stedman, Lewis W. 104 Fifth, insurance agent  
Sterritt, John H. 24 Purchase, tinsmith  
Stetson, George R. 67 Bedford, Pres. Gas Co.  
Stevens, Henry A. Rockdale av, painter  
Stone, Francis H. 35 Arnold, master mariner  
Studley, Alfred G. 79 Locust, bookkeeper  
Swift, Anderson H. 74 South, carriage trimmer  
Swift, Augustus, 75 North, iron foundry  
Swift, Edward B. 38 Willis, florist  
Swift, Ezra J. 18 Campbell, yeast dealer  
Swift, George B. 83 Mill, clothing dealer  
Swift, John F. 369 Purchase, accountant  
Swift, Orville V. 34 So. Ash, music teacher  
Swift, Thatcher S. 118 So. Sixth, livery stable  
Sylvia, Anthony L. 89 So. Sixth, merchant

## T

Taber, Arthur K. 141 Summer, clerk  
Taber, Edward C. e. side Acushnet av, grocer  
Taber, Robert W. 48 Fifth, bookseller  
Taylor, George A. 189½ Grinnell, laborer  
Taylor, John W. 195 Acushnet av, machinist  
Taylor, William H. 128 Fourth, machinist  
Thompson, James O. 80 Willis, express messenger  
Thomson, Pardon G. 10 So. Sixth, merchant  
Thorley, Francis, 515 Rivet, carpenter  
Tilden, Andrew, Cottage and Bedford, confectioner  
Tilden, Horace, 65 Fifth, confectioner  
Tillinghast, Theodore F. 37 Eighth, no occupation  
Tilton, Charles C. 396 Purchase, bookkeeper  
Tinkham, Elisha B. 75 Chestnut, shoe manufacturer  
Tinkham, Otis, Willow corner Cedar, shoemaker  
Tobey, Warren P. 39 Locust, publisher  
Toomey, Dennis H. 12 Linden, clerk  
Tourtellot, William E. 65 Walden, printer  
Tripp, Alonzo B. 280 Acushnet av, carriage maker  
Tripp, Andrew W. Ashland, shoemaker  
Tripp, Augustus C. Ashland cor. Linden, grocer  
Tripp, Christopher B. 12 Sherman, blacksmith  
Tripp, Edwin I. Kempton and Florence, butcher  
Tripp, Eliphalet A. 62 Shawmut av, agent  
Tripp, Frank G. 82 State, laundry  
Tripp, James H. 10 Allen, clerk  
Tripp, Thomas B. 37 Allen, real estate agent  
Truman, George H. Gammons lane, loomfixer  
Tucker, William A. 6 Orchard, no occupation  
Tuell, Frank P. P. 302 County, market  
Turner, Elbridge A. Hathaway road, shoemaker

## U

Underwood, Arthur P. 48 Mill, clerk

## V

Viall, Walter G. 603 County, manager  
Vinal, Charles H. 56 Foster, accountant

## W

Wade, Joseph B. 83 Willis, merchant  
Waite, Charles H. 15 Campbell, real estate dealer  
Waite, Stephen E. 373 Purchase, paper hanger  
Warren, David, 255 State, livery stable  
Warren, Joseph C. 53 County, carpenter  
Washburn, Alanson R. 338 Cedar, grocer  
Washburn, Francis P. w. side Tobey road, carpenter  
Washburn, George E. w. side Tobey road, mechanic  
Watkins, James B. 20 Allen, druggist  
Waterman, William H. 9 Arch, retired  
Weaver, Thomas H. 1125 Acushnet av, carpenter  
Weaver, William N. Hathaway road, grocer  
Wentworth, Frank W. 74 Walnut, merchant  
Wentworth, Hiram W. 74 Walnut, merchant  
West, William F. 102 Durfee, painter  
Whalley, Edmund J. 74 Washington, Pairpoint Mfg. Co.  
Wheaton, Ernest A. 164 Chestnut, bottler  
Whiting, Edward B. 39 Lincoln, merchant  
Whittaker, Benjamin, 408 Pleasant, motorman  
Whittaker, Edwin, 138 State, agent  
Whittaker, Henry, 643 Purchase, doffer  
Wilbur, Noah H. e. side Tobey road, lumber dealer  
Wilde, Albert, 441 Pleasant, newsdealer  
Willis, Henry P. 52 Seventh, clerk  
Willis, Rufus H. 369 Cottage, shoemaker  
Williston, Leander A. 72 South, carpenter  
Wilson, William P. Shawmut av, merchant  
Wing, Charles F. 37 So. Sixth, merchant  
Wing, John, 24 So. Sixth, merchant

Winter, Richmond C. 1 Fair, machinist  
Wood, Edwin B. 95 Washington, engraver  
Wood, Charles H. 245 Purchase, janitor  
Wood, George, 49 So. Emerson, tinsmith  
Wood, George R. 76 Walnut, lumber dealer  
Wood, James Augustus, 91 State, carriage maker  
Wood, William G. 100 Bedford  
Wood, William H. 546 County, merchant  
Wrigley, James, 942 Acushnet av, overseer

## Y

York, George A. 70 Russell, insurance agent  
Young, Frank, 21 Ashland, retired  
Young, James A. 63 No. Second, bookkeeper









# CITY OF NEW BEDFORD.

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## ORDINANCES.

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IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

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### AN ORDINANCE

PERTAINING TO THE CONSTRUCTION OF BUILDINGS.

*Be it ordained by the City Council of the City of New Bedford, as follows:*

SECTION 1. Every person before proceeding to erect any building or wall or make any alterations in the external wall of any structure, any part of which is to be placed upon or within thirty feet of any accepted or contemplated street, square, lane or alley, or to lay the foundation thereof, shall, at least fifteen days before the work is begun obtain from the City Engineer the lines and grade of the street, lane, square, or alley upon which he intends to build, which shall be furnished without charge.

SECT. 2. The committee on Buildings in the Fire District or the Inspector of Buildings shall not grant to any person a permit to erect any building or wall until the provisions of section 1 of this ordinance have been complied with.

IN BOARD OF ALDERMEN, Dec. 28, 1896.

Passed to be ordained.

DAVID L. PARKER, Mayor.

IN COMMON COUNCIL, 12 mo. 28, 1896.

Passed to be ordained.

ARTHUR L. BLACKMER, President.

Approved Dec. 29, 1896.

DAVID L. PARKER, Mayor.

A true copy. Attest:

DANIEL B. LEONARD, City Clerk.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

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AN ORDINANCE

ESTABLISHING THE DEPARTMENT OF WHARVES.

*Be it ordained by the City Council of the City of New Bedford, as follows:*

SECTION 1. The Department of Wharves is hereby established.

SECT. 2. Upon the passage of this ordinance and thereafter at the commencement of each municipal year, there shall be appointed a joint standing committee to consist of two aldermen and three members of the common council to be called the "Committee on Wharves." Said committee shall have the care and custody of all wharves, wharf property and buildings thereon belonging to the city, and of the erection, alteration and repair thereof subject always to such rules, orders and regulations as the city council may adopt.

SECT. 3. No expenditure for any particular object shall be made by this committee for a sum exceeding two hundred dollars unless by an express vote of the city council authorizing the same. And all contracts made by this committee involving an expenditure in excess of three hundred dollars shall be in writing, and signed on behalf of the city by the mayor and chairman of said committee.

SECT. 4. All receipts into the city treasury from wharves, wharf property or buildings thereon, shall be credited to the Department of Wharves. Any provisions of an ordinance approved December 9th, 1893, entitled

“An ordinance relative to the disposition of certain moneys in the city treasury,” to the contrary notwithstanding.

SECT. 5. This ordinance shall take effect upon its passage.

IN BOARD OF ALDERMEN, June 1, 1896.

Passed to be ordained.

DAVID L. PARKER, Mayor.

IN COMMON COUNCIL, 6 mo. 1, 1896.

Passed to be ordained.

ARTHUR L. BLACKMER, President.

Approved June 2, 1896.

D. L. PARKER, Mayor.

A true copy. Attest:

D. B. LEONARD, City Clerk.

IN THE YEAR EIGHTEEN HUNDRED NINETY-SEVEN.

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AN ORDINANCE

TO AMEND CHAPTER XXVIII, ENTITLED "ACCOUNTS AND FINANCE," OF THE CITY ORDINANCES.

*Be it ordained by the City Council of the City of New Bedford, as follows:*

SECTION 1. Section 1 of chapter XXVIII of the ordinances of the City of New Bedford is hereby amended by striking out the word "January" wherever it occurs therein and inserting in place thereof the word "December."

SECT. 2. This ordinance shall take effect upon its passage.

IN BOARD OF ALDERMEN, Feb. 25, 1897.

Passed to be ordained.

CHAS. S. ASHLEY, Mayor.

IN COMMON COUNCIL, 2 mo. 25, 1897.

Passed to be ordained.

GEO. P. BAILEY, President.

Approved February 27, 1897.

C. S. ASHLEY, Mayor.

A true copy. Attest:

DANIEL B. LEONARD, City Clerk.



IN THE YEAR EIGHTEEN HUNDRED NINETY-SEVEN.

*Be it ordained by the City Council of the City of New Bedford, as follows:*

SECTION 1. No person shall drop, place or throw or cause to be dropped, placed or thrown upon any street, lane, alley, public square or way in the city, any glass, tacks, wire, scraps of metal or other substances liable to injure the feet of pedestrians or animals or the tires of carriages, bicycles or other vehicles.

SECT. 2. Any person violating the provisions of this ordinance shall be punished by a fine of not less than one dollar or more than twenty dollars.

SECT. 3. This ordinance shall take effect upon its passage.

IN COMMON COUNCIL, 3 mo. 11, 1897.

Passed to be ordained.

GEO. P. BAILEY, President.

IN BOARD OF ALDERMEN, April 22, 1897.

Passed to be ordained.

SAMUEL C. HUNT, Acting Mayor.

Approved April 27, 1897.

CHAS. S. ASHLEY, Mayor.

A true copy. Attest:

D. B. LEONARD, City Clerk.





















